# Erik B Muller

## List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | Impacts of Metal Oxide Nanoparticles on Marine Phytoplankton. Environmental Science &amp; Technology, 2010, 44, 7329-7334. | 10.0 | 280 |
| 2 | Stoichiometric food quality and herbivore dynamics. Ecology Letters, 2001, 4, 519-529. | 6.4 | 93 |
| 3 | A dynamic bioenergetic model for coral- Symbiodinium symbioses and coral bleaching as an alternate stable state. Journal of Theoretical Biology, 2017, 431, 49-62. | 1.7 | 63 |
| 4 | Impact of Engineered Zinc Oxide Nanoparticles on the Individual Performance of Mytilus galloprovincialis. PLoS ONE, 2013, 8, e61800. | 2.5 | 60 |
| 5 | Dynamic energy budgets in syntrophic symbiotic relationships between heterotrophic hosts and photoautotrophic symbionts. Journal of Theoretical Biology, 2009, 259, 44-57. | 1.7 | 57 |
| 6 | Bullfrogs, Disturbance Regimes, and the Persistence of California Red-Legged Frogs. Journal of Wildlife Management, 2003, 67, 424. | 1.8 | 54 |
| 7 | Quantitative Adverse Outcome Pathway Analysis of Hatching in Zebrafish with CuO Nanoparticles. Environmental Science &amp; Technology, 2015, 49, 11817-11824. | 10.0 | 54 |
| 8 | Integrating the Effects of Ocean Acidification across Functional Scales on Tropical Coral Reefs. BioScience, 2016, 66, 350-362. | 4.9 | 51 |
| 9 | Survival and Production in Variable Resource Environments. Bulletin of Mathematical Biology, 2000, 62, 1163-1189. | 1.9 | 50 |
| 10 | Sublethal toxicant effects with dynamic energy budget theory: model formulation. Ecotoxicology, 2010, 19, 48-60. | 2.4 | 47 |
| 11 | Impact of engineered zinc oxide nanoparticles on the energy budgets of Mytilus galloprovincialis. Journal of Sea Research, 2014, 94, 29-36. | 1.6 | 43 |
| 12 | Incorporating Suborganismal Processes into Dynamic Energy Budget Models for Ecological Risk Assessment. Integrated Environmental Assessment and Management, 2018, 14, 615-624. | 2.9 | 42 |
| 13 | Water transport through tall trees: A vertically explicit, analytical model of xylem hydraulic conductance in stems. Plant, Cell and Environment, 2018, 41, 1821-1839. | 5.7 | 36 |
| 14 | Photosynthetic efficiency predicts toxic effects of metal nanomaterials in phytoplankton. Aquatic Toxicology, 2017, 183, 85-93. | 4.0 | 33 |
| 15 | Dynamic energy budget modeling reveals the potential of future growth and calcification for the coccolithophore *E* *miliania huxleyi* in an acidified ocean. Global Change Biology, 2014, 20, 2031-2038. | 9.5 | 28 |
| 16 | Conventional and nano-copper pesticides are equally toxic to the estuarine amphipod Leptocheirus plumulosus. Aquatic Toxicology, 2020, 224, 105481. | 4.0 | 25 |
| 17 | Sublethal toxicant effects with dynamic energy budget theory: application to mussel outplants. Ecotoxicology, 2010, 19, 38-47. | 2.4 | 20 |
| 18 | Relating suborganismal processes to ecotoxicological and population level endpoints using a bioenergetic model. Ecological Applications, 2015, 25, 1691-1710. | 3.8 | 20 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Benchmarks in organism performance and their use in comparative analyses. Oecologia, 2011, 167, 379-390. | 2.0 | 19 |
| 20 | Impact of excess and harmful radiation on energy budgets in scleractinian corals. Ecological Modelling, 2011, 222, 1315-1322. | 2.5 | 13 |
| 21 | Synthesizing units as modeling tool for photosynthesizing organisms with photoinhibition and nutrient limitation. Ecological Modelling, 2011, 222, 637-644. | 2.5 | 12 |
| 22 | Feedbacks and tipping points in organismal response to oxidative stress. Journal of Theoretical Biology, 2016, 404, 361-374. | 1.7 | 12 |
| 23 | Regulation of reproductive processes with dynamic energy budgets. Functional Ecology, 2019, 33, 819-832. | 3.6 | 12 |
| 24 | Daphnia magnaâ€™s sense of competition: intra-specific interactions (ISI) alter life history strategies and increase metals toxicity. Ecotoxicology, 2016, 25, 1126-1135. | 2.4 | 10 |
| 25 | Entrainment of cell division in phytoplankton with dynamic energy budgets. Journal of Sea Research, 2011, 66, 447-455. | 1.6 | 9 |
| 26 | Hostâ€"Symbiont Interaction Model Explains Non-monotonic Response of Soybean Growth and Seed Production to Nano-CeO$_2$ Exposure. Environmental Science &amp; Technology, 2017, 51, 4944-4950. | 10.0 | 9 |
| 27 | The implications of reduced metabolic rate in a resource-limited coral. Journal of Experimental Biology, 2016, 219, 870-7. | 1.7 | 8 |
| 28 | Linking Adverse Outcome Pathways to Dynamic Energy Budgets: A Conceptual Model. , 2018, , 281-302. | | 7 |
| 29 | Local control of resource allocation is sufficient to model optimal dynamics in syntrophic systems. Theoretical Ecology, 2020, 13, 481-501. | 1.0 | 6 |
| 30 | Inhibition and damage schemes within the synthesizing unit concept of dynamic energy budget theory. Journal of Sea Research, 2019, 143, 165-172. | 1.6 | 2 |