

# Serge Demers

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,952  
citations

279798

23  
h-index

302126

39  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2016  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Response of phytoplankton dynamics to 19-year (1991–2009) climate trends in Potter Cove (Antarctica). <i>Journal of Marine Systems</i> , 2012, 92, 53-66.   | 2.1 | 178       |
| 2  | Mechanisms of UV damage to aquatic organisms. , 2000, , 149-176.  |     | 152       |
| 3  | LIGHT AND NUTRIENT LIMITATION OF SEA-ICE MICROALGAE (HUDSON BAY, CANADIAN ARCTIC)1. <i>Journal of Phycology</i> , 1990, 26, 220-232.  | 2.3 | 128       |
| 4  | Resuspension in the shallow sublittoral zone of a macrotidal estuarine environment: Wind influence1. <i>Limnology and Oceanography</i> , 1987, 32, 327-339.   | 3.1 | 118       |
| 5  | Experimental test of the effect of ultraviolet-B radiation in a planktonic community. <i>Limnology and Oceanography</i> , 1999, 44, 586-596.  | 3.1 | 106       |
| 6  | Interactions of ultraviolet-B radiation, mixing, and biological activity on photobleaching of natural chromophoric dissolved organic matter: A mesocosm study. <i>Limnology and Oceanography</i> , 2000, 45, 278-291. | 3.1 | 101       |
| 7  | Strategies for the minimisation of UV-induced damage. , 2000, , 177-205.  |     | 92        |
| 8  | The <sup>14</sup> C method: Patterns of dark CO <sub>2</sub> fixation and DCMU correction to replace the dark bottle1,2. <i>Limnology and Oceanography</i> , 1983, 28, 996-1003.                                      | 3.1 | 90        |
| 9  | Springtime coupling between ice algal and phytoplankton assemblages in southeastern Hudson Bay, Canadian Arctic. <i>Polar Biology</i> , 1993, 13, 441.  | 1.2 | 67        |
| 10 | Colloidal complexed silver and silver nanoparticles in extrapallial fluid of <i>Mytilus edulis</i> . <i>Marine Environmental Research</i> , 2011, 71, 17-21.  | 2.5 | 59        |
| 11 | Climate change enhances primary production in the western Antarctic Peninsula. <i>Global Change Biology</i> , 2015, 21, 2191-2205.  | 9.5 | 58        |
| 12 | Nutrient limitation of the bottom-ice microalgal biomass (southeastern Hudson Bay, Canadian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30  | 3.1 | 50        |
| 13 | Spectral weighting functions for quantifying effects of UV radiation in marine ecosystems. , 2000, , 72-100.  |     | 47        |
| 14 | UV radiation effects on heterotrophic bacterioplankton and viruses in marine ecosystems. , 2000, , 206-236.   |     | 45        |
| 15 | Nitrogenous nutrition of sea-ice microalgae. <i>Polar Biology</i> , 1989, 9, 377-383.   | 1.2 | 36        |
| 16 | Ultraviolet-B Radiation Effects on the Structure and Function of Lower Trophic Levels of the Marine Planktonic Food Web. <i>Photochemistry and Photobiology</i> , 2006, 82, 887.                                      | 2.5 | 35        |
| 17 | Carbon flows through the microbial food web of first-year ice in resolute passage (Canadian High) Tj ETQq1 1 0.784314 rgBT /Overlock 34   | 2.1 | 34        |
| 18 | Effects of UV radiation on the physiology and ecology of marine phytoplankton. , 2000, , 237-278.   |     | 33        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Photosynthetic and pigment responses of sea-ice microalgae to changes in light intensity and quality. <i>Journal of Experimental Marine Biology and Ecology</i> , 1986, 101, 211-226.   | 1.5 | 32        |
| 20 | Multiple stressors on an Antarctic microplankton assemblage: water soluble crude oil and enhanced UVBR level at Ushuaia (Argentina). <i>Polar Biology</i> , 2007, 30, 829-841.  | 1.2 | 31        |
| 21 | INFLUENCE OF UV-B RADIATION ON NITROGEN UTILIZATION BY A NATURAL ASSEMBLAGE OF PHYTOPLANKTON. <i>Journal of Phycology</i> , 2000, 36, 484-496.  | 2.3 | 30        |
| 22 | Effects of Enhanced UV-B on Pigment-based Phytoplankton Biomass and Composition of Mesocosm-enclosed Natural Marine Communities from Three Latitudes. <i>Photochemistry and Photobiology</i> , 2006, 82, 909.                               | 2.5 | 30        |
| 23 | Metazoan meiofauna dynamics and pelagic-benthic coupling in the Southeastern Beaufort Sea, Arctic Ocean. <i>Polar Biology</i> , 2007, 30, 1123-1135.  | 1.2 | 29        |
| 24 | Chlorophyll a biomass and growth of sea-ice microalgae along a salinity gradient (southeastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54   | 1.2 | 28        |
| 25 | Photosynthetic responses of Arctic sea-ice microalgae to short-term temperature acclimation. <i>Polar Biology</i> , 1989, 9, 437-442.   | 1.2 | 26        |
| 26 | Coastal management and sustainable development. <i>Ocean and Coastal Management</i> , 1998, 39, 1-24.   | 4.4 | 25        |
| 27 | Sea-ice microalgae to test the hypothesis of photosynthetic adaptation to high frequency light fluctuations. <i>Journal of Experimental Marine Biology and Ecology</i> , 1986, 97, 321-326.   | 1.5 | 24        |
| 28 | UV Effects on Marine Planktonic Food Webs: A Synthesis of Results from Mesocosm Studies. <i>Photochemistry and Photobiology</i> , 2006, 82, 850.  | 2.5 | 24        |
| 29 | Variability of the microbial community in the western Antarctic Peninsula from late fall to spring during a low ice cover year. <i>Polar Biology</i> , 2010, 33, 1599-1614.   | 1.2 | 24        |
| 30 | Alteration of shell nacre micromorphology in blue mussel <i>Mytilus edulis</i> after exposure to free-ionic silver and silver nanoparticles. <i>Chemosphere</i> , 2011, 84, 701-706.  | 8.2 | 23        |
| 31 | Ice-brine and planktonic microheterotrophs from Saroma-ko Lagoon, Hokkaido (Japan): quantitative importance and trophodynamics. <i>Journal of Marine Systems</i> , 1997, 11, 149-161.   | 2.1 | 21        |
| 32 | Bacterial dynamics in first year sea ice and underlying seawater of Saroma-ko Lagoon (Sea of Okhotsk,) Tj ETQq0 0 0 rgBT /Overlock 10 dynamics. <i>Canadian Journal of Microbiology</i> , 2000, 46, 623-632.                                | 1.7 | 18        |
| 33 | TBT toxicity on a natural planktonic assemblage exposed to enhanced ultraviolet-B radiation. <i>Aquatic Toxicology</i> , 2005, 73, 299-314.   | 4.0 | 16        |
| 34 | Biosorption of thorium on the external shell surface of bivalve mollusks: The role of shell surface microtopography. <i>Chemosphere</i> , 2012, 86, 680-683.  | 8.2 | 14        |
| 35 | The combined effect of ultraviolet B radiation and temperature increase on phytoplankton dynamics and cell cycle using pulse shape recording flow cytometry. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 406, 95-107. | 1.5 | 13        |
| 36 | Effects of ultraviolet-B radiation and vertical mixing on nitrogen uptake by a natural planktonic community shifting from nitrate to silicic acid deficiency. <i>Limnology and Oceanography</i> , 2003, 48, 18-30.                          | 3.1 | 12        |

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|----|--|-----|-----------|
| 37 | Crue Ã©clair de juillet 1996 dans la rÃ©gion du Saguenay (QuÃ©bec). 1. Impacts sur la colonne d'eau de la baie des Ha! Ha! et du fjord du Saguenay. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 2120-2135. | 1.4 | 11        |
| 38 | Implications of UV radiation for the food web structure and consequences on the carbon flow. , 2000, , 310-320.  |     | 11        |
| 39 | Oceanography and ecology of phytoplankton in the St. Lawrence Estuary. Coastal and Estuarine Studies, 1990, , 269-295.   | 0.4 | 11        |
| 40 | Oceanography and Ecology of Phytoplankton in the St.Lawrence Estuary. , 1990, , 269-295.   |     | 8         |
| 41 | Shell malformations in seven species of pond snail (Gastropoda, Lymnaeidae): analysis of large museum collections. Zoosystematics and Evolution, 2012, 88, 365-368.  | 1.1 | 7         |
| 42 | Does radioactive contamination affect the shell morphology of the pond snail Lymnaea stagnalis in the exclusion zone of the Chernobyl NPP (Ukraine)?. The Environmentalist, 2011, 31, 369-375.                               | 0.7 | 6         |
| 43 | An endogenous periodicity exhibited in the activity of a natural bacterioplankton community isolated in mesocosms. Canadian Journal of Microbiology, 1999, 45, 555-564.  | 1.7 | 5         |
| 44 | Photosynthetic characteristics of sinking microalgae under the sea ice. Polar Science, 2014, 8, 385-396.   | 1.2 | 5         |
| 45 | The Whole Is More Than the Sum of Its Parts: Modeling Community-Level Effects of LVR in Marine Ecosystems. Photochemistry and Photobiology, 2006, 82, 903.   | 2.5 | 4         |
| 46 | Method for repeated extrapallial fluid extraction from bivalve molluscs. Journal of Molluscan Studies, 2010, 76, 399-400.  | 1.2 | 3         |