

Journal Publications 2001

Journal Publications

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Bruland, K.W., E.L. Rue and G.J. Smith, "The influence of iron and macronutrients in coastal upwelling regimes off Central California: Implications for extensive blooms of large diatoms", *Limnology and Oceanography*, p. , vol. , (). Accepted

Casciotti, K. L. and B. B. Ward, "Dissimilatory nitrite reductase genes from autotrophic ammonia-oxidizing bacteria", *Applied and Environmental Microbiology*, p. 2213, vol. 67, (2001). Published

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Kraepiel, A.M.L., I. Schaperdoth, T. Lane and F.M.M. Morel, "Localization of carbonic anhydrase in diatoms", *Plant Physiology*, p. , vol. , (). Accepted

Lam, P.J., P.D. Tortell and F.M.M. Morel, "Differential effects of iron additions on organic and inorganic carbon production by phytoplankton", *Limnology and Oceanography*, p. , vol. 46, (2001). Accepted

Macrellis, H.M., C.G. Trick, E.L. Rue, G.J. Smith, and K.W. Bruland, "Collection and detection of natural iron-binding ligands from seawater", *Marine Chemistry*, p. , vol. , (). Accepted

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Martinez, J.S., M.G. Haygood and Alison Butler, "Identification of a natural desferrioxamine siderophore produced by a marine bacterium", *Limnology and Oceanography*, p. 420, vol. 46, (2001). Published

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Nodwell, L. and N.M. Price, "Direct use of inorganic colloidal iron by marine mixotrophic phytoplankton", *Limnology and Oceanography*, p. , vol. , (). Accepted

Gao, Y., Y.J. Kaufman, D. Tanre, D. Kolber and P.G. Falkowski, "Seasonal

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Gao, Y. and J. Anderson, "Characteristics of Chinese aerosols determined by individual-particle analyses", *Journal of Geophysical Research*, p. , vol. , (). Accepted

Tortell, P.D., G.H. Rau, and F.M.M. Morel, "Inorganic carbon acquisition in coastal Pacific phytoplankton communities", *Limnology and Oceanography*, p. 1485, vol. 45, (2000). Published

Bruland, K.W., E.L. Rue, J. R. Donat, S. Skrabal, and J. Moffett, "Intercomparison of voltammetric techniques to determine the chemical speciation of dissolved copper in a coastal seawater sample", *Analytica Chimica Acta*, p. 99-113, vol. 405, (2000). Published

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Gao, Y., S-M. Fan and J.L. Sarmiento, "Aeolian iron input to the ocean through precipitation scavenging: A model perspective", *Geophysical Research Letters*, p. , vol. , (). Submitted

Hudson, R., E.L. Rue, K.W. Bruland, and C. Trick, "Metal binding characteristics of siderophores isolated from marine cyanobacteria", *Marine Chemistry*, p. , vol. , (). Submitted

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Sigman, D.M., K. L. Casciotti, M. Andreani, C. Barford, M. Galanter, M.L. Bender, J.K. Bohlke, "A bacterial method for the nitrogen isotopic analysis of nitrate in marine and freshwaters", *Analytical Chemistry*, p. , vol. , (). Submitted

Webb. E.A., J.W. Moffett and J.B. Waterbury, "Iron stress in open ocean cyanobacteria (*Synechococcus*, *Trichodesmium* and *Crocospaera*): Identification of the IdiA protein", *Applied and Environmental Microbiology*, p. , vol. , (). Submitted

Books or Other One-time Publications

Bruland, K.W. and E.L. Rue, "Analytical Methods for the Determination of Concentrations and Speciation of Iron", (2000). Book, Published Editor(s): D. Turner and K. Hunter (editors) Collection: *The Biogeochemistry of Iron in Seawater Bibliography: Chapter 6*, John Wiley and Sons, London, England

Young, L., "Biodegradation of Petroleum Components in Anoxic Marine Sediment", (2000). Book, Published Collection: *In Marine Biotechnology Workshop NRC 2000 Bibliography: Chapter 8*

Gao, Y., S-M. Fan, R.D. Slater, J.L. Sarmiento, and P.G. Falkowski, "Aeolian iron inputs to the global ocean and its implication for the oceanic carbon cycles", (2000). , Published Collection: *AGU Fall Meeting, EOS Trans Bibliography: 21, 48, F747*

Kim, H. and P.R. Jaffe, "Simulating the biodegradation of toluene at the macroscopic and pore-level scale for aerobic and nitrate reducing conditions", (2000). Book, Published Collection: *Proceedings of the 220th National Meeting of the American Chemical Society Division of Environmental Chemistry Bibliography: Vol. 40, No. 2, p. 363*

Web/Internet Site

URL(s):

<http://www.princeton.edu/~cebic/>

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A CEBIC Web site has been developed on the Princeton University server. It features a home

page with a brief description of the project, investigators and sponsors as well as a side bar with buttons leading to pages for the investigators, projects, publications, proposal, related sites and outreach. The address for the site is www.princeton.edu/~cebic/. Each section includes the following: Investigators - lists all the CEBIC investigators with links to their home web pages. In the next few months, we plan to include paragraphs on each investigator describing their CEBIC research project. Projects - lists each research project with the names of the investigators working on that project. Publications - lists each book, journal article, or other written material resulting from CEBIC research. Proposal - contains the research project section of the original proposal. Related sites - includes links to the EMSI centers at Northwestern and Columbia Universities. We plan to expand this section to include other relevant sites. Outreach - includes a brief description of CEBIC's outreach program with a link to PEI's outreach page and links to outreach projects carried out by CEBIC investigators.