**Cary Institute Hudson River Publication List (update 8/5/2021)**

1. Alldred, M., S.B. Baines, and S.E.G. Findlay. 2016. Effects of invasive plant management on nitrogen removal services in freshwater tidal wetlands. PLoS One 11: e0149813.
2. Arrigoni, A., S. Findlay, D. Fischer, and K. Tockner. 2008. Predicting carbon and nutrient transformations in tidal freshwater wetlands of the Hudson River. Ecosystems 11:790-802.
3. Ashizawa, D., and J. J. Cole. 1994. Long-term temperature trends of the Hudson River: a study of historical data. Estuaries 17:166-171.
4. Austin, K., and S. Findlay. 1989. Benthic bacterial biomass and production in the Hudson River estuary. Microbial Ecology 18:105-116.
5. Baines, S., N. Fisher, and J. J. Cole. 2005. Uptake of dissolved organic matter (DOM) and its importance to metabolic requirements of the zebra mussel, Dreissena polymorpha. Limnology and Oceanography 50:36-47.
6. Baines, S. B., N. S. Fisher, and J. J. Cole. 2007. Dissolved organic matter and persistence of the invasive zebra mussel (*Dreissena polymorpha*) under low food conditions. Limnology and Oceanography 52:70-78.
7. Bastviken, D. T. E., N. F Caraco, and J. J. Cole. 1998. Experimental measurements of Zebra Mussel (*Dreissena polymorpha*) impacts on phytoplankton community composition. Freshwater Biology 39:375-386.
8. Bianchi, T. S., J. E. Dibb, and S. Findlay. 1993. Early diagenesis of plant pigments in Hudson River sediments. Estuarine, Coastal and Shelf Science 36:517-527.
9. Bianchi, T., and S. Findlay. 1990. Plant pigments as tracers for emergent and submergent macrophytes from the Hudson River. Canadian Journal of Fisheries and Aquatic Sciences 47:492-494.
10. Bianchi, T., and S. Findlay. 1991. Decomposition of Hudson River macrophytes: photosynthetic pigment transformations and decay rates. Estuaries 14:65-73.
11. Bianchi, T., S. Findlay, and D. Fontvieille. 1991. Experimental degradation of plant materials in Hudson River sediments. I. Heterotrophic transformations of plant pigments. Biogeochemistry 12:171-187.
12. Bianchi, T., S. Findlay, and R. Dawson. 1993. Organic matter sources in the water column and sediments of the Hudson River Estuary: the use of plant pigments as tracers. Estuarine, Coastal and Shelf Science 36:359-376.
13. Caraco, N. F. 1995. Influence of humans on phosphorus transfers to aquatic systems: A regional scale study using large rivers. pp. 235-244. In: H. Tiessen (ed.). Phosphorus in the Global Environment: Transfers, Cycles and Management. Wiley & Sons, Chichester.
14. Caraco, N. F., and J. J. Cole. 1999. Human impact on nitrate export: An analysis using major world rivers. Ambio 28:167-170.
15. Caraco, N. F., and J. J. Cole. 1999. Regional-scale export of C, N, P and sediment: What River data tell us about key controlling variables. Pages 240-253. In: J.D. Tenhunen and P. Kabat (eds.). Integrating hydrology, ecosystem dynamics and biogeochemistry in complex landscapes. Wiley and Sons, Ltd.
16. Caraco, N. F., and J. J. Cole. 2001. Human influence on nitrogen export: a comparison of mesic and xeric catchments. Marine and Freshwater Research 52:119-125.
17. Caraco, N. F., and J. J. Cole. 2002. Contrasting impacts of a native and alien macrophyte on dissolved oxygen in a large river. Ecological Applications 12:1496-1509.
18. Caraco, N. F., and J. J. Cole. 2003. The importance of organic nitrogen production in aquatic systems: a landscape perspective. pp. 263-283. In: S. E. G. Findlay, and R. L. Sinsabaugh (eds.). Aquatic Ecosystems: Interactivity of Dissolved Organic Matter. Academic Press/Elsevier Science, San Diego, California.
19. Caraco, N. F., and J. J. Cole. 2003. When terrestrial organic matter is sent down the river: importance of allochthonous C inputs to the metabolism in lakes and rivers. In: A. Polis, M. E. Power, and G. Huxell (eds.). Food Webs at the Landscape Level. University of Chicago Press, Chicago, Illinois.
20. Caraco, N. F., J. J. Cole, S. E. G. Findlay, D. T. Fischer, G. G. Lampman, M. L. Pace, and D. L. Strayer. 2000. Dissolved oxygen declines in the Hudson River associated with the invasion of the zebra mussel (*Dreissena polymorpha*). Environmental Science and Technology 34:1204-1210.
21. Caraco N. F., J. J. Cole, S. E. G. Findlay, and K. Wigand. 2006. Vascular plants as engineers of oxygen in aquatic systems. BioScience 56:221-225.
22. Caraco, N. F., J. J. Cole, G. E. Likens, G. M. Lovett, and K. C. Weathers. 2003. Variation in NO3 export from flowing waters of vastly different sizes: Does one model fit all? Ecosystems 6:344-352.
23. Caraco, N. F., J. J. Cole, P. A. Raymond, D. L. Strayer, M. L. Pace, S. E. G. Findlay and D. T. Fischer. 1997. Zebra mussel invasion in a large, turbid river: Phytoplankton response to increased grazing. Ecology 78:588-602.
24. Caraco, N. F., J. J. Cole, and D. L. Strayer. 2006. Top down control from the bottom: Regulation of eutrophication in a large river by benthic grazing. Limnology and Oceanography 51:664-670.
25. Caraco, N. F., G. Lampman, J. J. Cole, K. E. Limburg, M. L. Pace and D. T. Fischer. 1998. Microbial assimilation of DIN in a nitrogen rich estuary: Implications for food quality and isotope studies. Marine Ecology Progress Series 167:59-71.
26. Caraco, N., J. E. Bauer, J. J. Cole, S. Petsch, and P. Raymond. 2010. Millennial-aged organic carbon subsidies to a modern river food web. Ecology 91:2385-2393.
27. Carlsson, N.O.L., H. Bustamante, D.L. Strayer, and M.L. Pace. 2011. Biotic resistance on the move: native predators structure invasive zebra mussel populations. Freshwater Biology 56: 1630-1637.
28. Carlsson, N.O.L., O. Sarnelle, and D.L. Strayer.  2009.  Native predators and exotic prey – an acquired taste?  Frontiers in Ecology and the Environment 7:525-532.
29. Carlsson, N.O.L., and D.L. Strayer. 2009. Intraspecific variation in the consumption of exotic prey – a mechanism that increases biotic resistance against invasive species? Freshwater Biology 54: 2315-2319.
30. Clinton, S.M., R.T. Edwards and S.E.G. Findlay. 2010. Exoenzyme activities as indicators of dissolved organic matter composition in the hyporheic zone of a floodplain river. Freshwater Biology 55:1603-1615.
31. Cole, J. J. 2009. The discipline of limnology. Chapter 2, Pp. 6-13. *In*: G. E. Likens (ed.). The Encyclopedia of Inland Water - Volume 1. Oxford-Elsevier.
32. Cole J. J., and N. F. Caraco. 2001. Carbon in catchments: connecting terrestrial carbon losses with aquatic metabolism. Marine and Freshwater Research 52:101-110.
33. Cole, J. J., and N. F. Caraco. 2001. Emissions of nitrous oxide (N2O) from a tidal, freshwater river, the Hudson River, New York. Environmental Science and Technology 35:991-996.
34. Cole, J. J., and N. F. Caraco. 2006. Primary production and its regulation in the tidal-freshwater Hudson River. pp. 107-120. In: Levinton, J.S., and J. R. Waldman (eds). The Hudson River estuary. Cambridge University Press.
35. Cole, J. J., N. F. Caraco, and B. Peierls. 1991. Phytoplankton primary production in the tidal, freshwater Hudson River, New York (USA). Verhandlungen der Internationale Vereinigung für Theoretische und Angewandte Limnologie 24:1715-1719.
36. Cole, J. J., N. F. Caraco, and B. Peierls. 1992. Can phytoplankton maintain a positive carbon balance in a turbid, freshwater, tidal estuary? Limnology and Oceanography 37:1608-1617.
37. Cole, J. J., B. Peierls, N. F. Caraco and M. Pace. 1993. Do humans dominate nitrogen export from rivers of the world? pp. 141-157. In: McDonnell, M. and S. T. A. Pickett (eds.). Humans as Components of Ecosystems. Springer-Verlag, NY.
38. Cole, J. J., and Y. T. Prairie. 2009. Chapter 49, pp. 30-34. *In*: G. E. Likens (ed.). The Encyclopedia of Inland Water – Volume 2. Oxford-Elsevier.
39. Cole, J. J., Y. T.Prairie, N. F. Caraco, W. H. McDowell, L. J. Tranvik, R. G. Striegl, C. M. Duarte, P. Kortelainen, J. A. Downing, J. Middleburg, and J. Melack. 2007. Plumbing the global carbon cycle: Integrating inland waters into the terrestrial carbon budget. Ecosystems 10: 171-184.
40. [J. J. Cole](http://www.caryinstitute.org/science-program/publications?f%5Bauthor%5D=3143) and [C. T. Solomon](http://www.caryinstitute.org/science-program/publications?f%5Bauthor%5D=3676). 2012. [Terrestrial support of zebra mussels and the Hudson River food web: A multi-isotope, Bayesian analysis](http://www.caryinstitute.org/publications/terrestrial-support-zebra-mussels-and-hudson-river-food-web-multi-isotope-bayesian). Limnology and Oceanography 57: 1802-1815.
41. Connolly, C.T., W.V. Sobczak, and S.E.G. Findlay. 2014. Salinity effects on *Phragmites* decomposition dynamics among the Hudson River’s freshwater tidal wetlands. Wetlands 34: 575-582.
42. Courtwright, J. and S.E.G. Findlay. 2011. Effects of microtopography on hydrology, physicochemistry, and vegetation in a tidal swamp of the Hudson River. Wetlands 31:239-249.
43. Cyr, H., J. A. Downing, S. Lalonde, S. Baines, and M. L. Pace. 1992. Sampling larval fish: a choice of sample number and size. Transactions of the American Fisheries Society 121:356-368.
44. Daniels, R.A., R.E. Schmidt, K.E. Limburg, D.L. Strayer, and C.C. Chambers. 2005. Changes in fish assemblages in the tidal Hudson River, New York. Pages 471-503 In: Rinne, J. N., R. M. Hughes, and B. Calamusso (eds.). Historical changes in large river fish assemblages of America. American Fisheries Society Symposium 45. Bethesda, Maryland.
45. del Giorgio, P. A., J. J. Cole, and A. Cimbleris. 1997. Respiration rates in bacteria exceed phytoplankton production in unproductive aquatic systems. Nature 385:148-151.
46. del Giorgio, P.A. and M.L. Pace.  2008.  Relative independence of dissolved organic carbon processing and transport in a large temperature river:  the Hudson River as both pipe and reactor.  Limnology and Oceanography 53:185-197.
47. del Giorgio, P. A., M. L. Pace, and D. Fischer. 2006. Relationship of bacterial growth efficiency to spatial variation in bacterial activity in the Hudson River. Aquatic Microbial Ecology 45:55-67.
48. Fernald S. H., N. F. Caraco, and J. J. Cole. 2007. Changes in cyanobacterial dominance following the invasion of the zebra mussel *Dreissena polymorpha*: Long-term results from the Hudson River Estuary. Estuaries and Coasts. 30:163-170.
49. Findlay, S. E. G. 2005. Increased carbon transport in the Hudson River, NY – Unexpected consequence of nitrogen deposition? Frontiers in Ecology and Evolution 3:133-137.
50. Findlay, S. E. G. 2006. Bacterial abundance, growth and metabolism in the tidal freshwater Hudson River. pp. 99-106. In: J. S. Levinton and J. R. Waldman (eds.). The Hudson River Estuary. Cambridge University Press.
51. Findlay, S. 2009. Tidal freshwater wetlands. In: G.E. Likens (ed.). The Encyclopedia of Inland Waters. Academic Press.
52. Findlay, S. The bright side of linking science and management in large river ecosystems: The Hudson River case study. *River Res Applic*. 2019; 35: 459– 465.
53. Findlay, S. E. G., S. Dye, and K. A. Kuehn. 2002. Microbial growth and nitrogen retention in litter of *Phragmites australis* compared to *Typha angustifolia*. Wetlands 22:616-625.
54. S. E. G. Findlay and D. T. Fischer. 2013. Ecosystem attributes related to tidal wetland effects on water quality. Ecology 94: 117 - 125.
55. Findlay, S., K. Howe, and H. K. Austin. 1990. Comparison of detritus dynamics in two tidal freshwater wetlands. Ecology 71:288-295.
56. Findlay, S. E. G., E. Kiviat, W. C. Nieder and E. A. Blair. 2002. Functional assessment of a reference wetland set as a tool for science, management and restoration. Aquatic Sciences 64:107-117.
57. Findlay, S., W.H. McDowell, D. Fischer, M.L. Pace, N. Caraco, S.S. Kaushal and K.C. Weathers. 2010. Total carbon analysis may overestimate organic carbon content of fresh waters in the presence of high dissolved inorganic carbon. Limnology and Oceanography – Methods 8:196-201.
58. Findlay, S. E. G., W. C. Nieder, E. A. Blair, and D. T. Fischer. 2006. Multi-scale controls on water quality effects of submerged aquatic vegetation in the tidal freshwater Hudson River. Ecosystems 9:84-86.
59. Findlay, S., W. C. Nieder, and S. Ciparis. 2009. Carbon flows, nutrient cycling and food webs. In: A. Barendregt, D.F. Whigham, and A.H. Baldwin (eds.). Tidal Freshwater Wetlands. Backhuys Publishers, Leiden, The Netherlands
60. Findlay, S., M. L. Pace, and D. Fischer. 1996. Spatial and temporal variability in the lower food web of the tidal freshwater Hudson River. Estuaries 19:866-873.
61. Findlay, S., M. L. Pace, and D. T. Fischer. 1998. Response of heterotrophic planktonic bacteria to the zebra mussel invasion of the tidal freshwater Hudson River. Microbial Ecology 36:131-140.
62. Findlay, S., M. L. Pace, and D. Lints. 1991. Variability and transport of suspended sediment, particulate and dissolved organic carbon in the tidal freshwater Hudson River. Biogeochemistry 12:149-169.
63. Findlay, S., M. L. Pace, and D. Lints. 1992. Bacterial metabolism of organic carbon in the tidal freshwater Hudson Estuary. Marine Ecology Progress Series 89:147-153.
64. Findlay, S., M. L. Pace, D. Lints, J. J. Cole, N. F. Caraco, and B. Peierls. 1991. Weak coupling of bacterial and algal production in a heterotrophic ecosystem, the Hudson estuary. Limnology and Oceanography 36:268-278.
65. Findlay, S., K. Schoeberl, and B. Wagner. 1989. Abundance, composition, and dynamics of the invertebrate fauna of a tidal freshwater wetland. Journal of the North American Benthological Society 8:140-148.
66. Findlay, S., R. L. Sinsabaugh, P. Franchini, and D. T. Fischer. 1998. Sources of dissolved organic carbon supporting planktonic bacterial production in the tidal freshwater Hudson. Ecosystems 1:227-239.
67. Findlay, S., D.L. Strayer, S. Smith, and N. Curri. 2014. Magnitude and patterns of change in submerged aquatic vegetation of the tidal freshwater Hudson River. Estuaries and Coasts 37: 1233-1242.
68. Findlay, S. E. G., C. Wigand, and W. C. Nieder. 2006. Submersed macrophyte distribution and function in the tidal freshwater Hudson River. pp. 230-241. In: J. S. Levinton and J. R. Waldman (eds.). The Hudson River Estuary. Cambridge University Press.
69. Goodwin, K., N. Caraco, andJ. Cole. 2008. Temporal dynamics of dissolved oxygen in a floating leaved macrophyte bed.  Freshwater Biology 53:1632-1641.
70. Harley, M. T., and S. Findlay. 1994. Photosynthesis-irradiance relationships for three species of submersed macrophytes in the tidal freshwater Hudson River. Estuaries 17:200-205.
71. Harris, C., D.L. Strayer, and S. Findlay. 2014. The ecology of freshwater wrack along natural and engineered Hudson River shorelines. Hydrobiologia 722: 233-245.
72. Harrison, J.A., S. P. Seitzinger, A. F. Bouwman, N. F. Caraco, A. H. W. Beusen, and C. J. Vorosmarty. 2005. Dissolved inorganic phosphorus export to the coastal zone: Results from a spatially explicit global model. Global Biogeochemical Cycles. 19: GB4S03
73. Hondula, K.L., M.L. Pace, J.J. Cole, and R.D. Batt. 2014. Hydrogen isotope discrimination in aquatic primary producers: implications for aquatic food web studies. Aquatic Sciences 76: 217-229.
74. Hummel, M., and S. Findlay. 2006. Effects of Water Chestnut (*Trapa natans*) beds on water chemistry in the tidal freshwater Hudson River. Hydrobiologia 559:169-181.
75. Hunsinger, G.B., S. Mitra, S.E.G. Findlay and D.T. Fischer. 2010. Wetland-driven shifts in suspended particulate organic matter composition of the Hudson River estuary, New York. Limnology and Oceanography 55:1653-1667.
76. G. B. Hunsinger, S. Mitra, S. E. G. Findlay, and D. T. Fischer. 2012. Littoral-zone influences on particulate organic matter composition along the freshwater-tidal Hudson River, New York. Limnology and Oceanography 57: 1303-1316.
77. Jackson, J.K., A.D. Huryn, D.L. Strayer, D. Courtemanch, and B.W. Sweeney. 2005. Atlantic rivers - Northeastern states. pp. 20-71. In: A.C. Benke and C.E. Cushing (editors). Rivers of North America. Academic Press.
78. Kirchman, D. L., A. Dittel, S. E. G. Findlay, and D. T. Fischer. 2004. Changes in bacterial activity and community structure in response to dissolved organic matter in the Hudson River, New York. Aquatic Microbial Ecology 35:243-257.
79. Kiviat, E., S. E. G. Findlay, and W. C. Nieder. 2006. Tidal wetlands. pp. 279-295. In: J. S. Levinton and J. R. Waldman (eds.). The Hudson River Estuary. Cambridge University Press.
80. Kornijów, R., D.L. Strayer, and N.F. Caraco. 2010. Macroinvertebrate communities of hypoxic habitats created by an invasive plant (*Trapa natans*) in the freshwater tidal Hudson River. Fundamental and Applied Limnology 176: 199-207.
81. Ladd, J.W., R.E. Bell, E.A. Blair, H. Bokuniewicz, S. Carbotte, R.M. Cerrato, S. Chillrud, V.L. Ferrini, R.D. Flood, N.P. Maher, C.M.G. McHugh, F.O. Nitsche, W.B.F. Ryan, D.L. Strayer, J. Thissen, and R. Versteeg. 2002. Mapping the Hudson estuary's submerged lands. Clearwaters 32(1):5-7.
82. Lampman, G., N. F. Caraco and J. J. Cole. 1999. Spatial and temporal patterns of nutrient concentration and export in the tidal Hudson River. Estuaries 22:285-296.
83. Lampman G. G., Caraco N. F., and Cole J. J. 2001. A method for the measurement of particulate C and P on the same filter. Marine Ecology Progress Series 217:59-65.
84. Limburg, K. E. 1998. Anomalous migrations of anadromous herrings revealed with natural chemical tracers. Canadian Journal of Fisheries and Aquatic Sciences 55:431-437.
85. Limburg, K. E. 2001. Through the gauntlet again: demographic restructuring of American shad by migration. Ecology 82:1584-1596.
86. Limburg, K. E., M. L. Pace, and K. K. Arend. 1998. Growth and survival of age 0+ *Morone* in relation to food availability and temperature in the Hudson River. Fisheries Bulletin 97:80-91.
87. Limburg, K. E., M. L. Pace, D. Fischer, and K. K. Arend. 1997. Consumption, selectivity, and utilization of zooplankton by larval fish in a seasonally pulsed estuary. Transactions of the American Fisheries Society 126:607-621.
88. Lints, D., S. Findlay, and M. Pace. 1992. Biomass and energetics of consumers in the lower food web of the Hudson River. pp. 446-457. In: C. L. Smith (ed.) Estuarine Research in the 1980's. SUNY Press, Albany, NY.
89. Maranger, R. J., M. L. Pace, P. A. del Giorgio, N. F. Caraco, and J. J. Cole. 2005. A spatial analysis of bacterial production, respiration, and carbon consumption in a river-estuarine ecosystem. Ecosystems. 8:318-330.
90. Marshall, N.T., Stepien, C.A. 2021. Genetic trajectories of zebra and quagga mussel invasions across three decades: Lake Erie versus Hudson River populations. Aquatic Invasions. 15:147-166. https://doi.org/10.3391/ai.2021.16.1.10
91. Meyerson, L. A., K. Saltonstall, L. Windham, E. Kiviat, and S. Findlay. 2000. A comparison of *Phragmites australis* in freshwater and brackish marsh environments in North America. Wetland Ecological Management 8:89-103.
92. Mills, E. L., M. Scheuerell, J. T. Carlton, and D. L. Strayer. 1997. Biological invasions in the Hudson River: an inventory and historical analysis. New York State Museum Circular 57:1-51.
93. Mills, E. L., D. L. Strayer, M. D. Scheuerell, and J. T. Carlton. 1996. Exotic species in the Hudson River basin - a history of invasions and introductions. Estuaries 19:814-823.
94. Moore, M. V., M. L. Pace, J. R. Mather, P. S. Murdoch, R. W. Howarth, C. L. Folt, C. Y. Chen, H. F. Hemond, P. A. Flebbe, and C. T. Driscoll. 1997. Potential effects of climate change on freshwater ecosystems of the New England/Mid-Atlantic region. Hydrological Processes 11:925-947.
95. Natesan, Sahana, and David L. Strayer. 2016. Long-Term Increases In Shell Thickness Of Zebra Mussels (Dreissena Polymorpha) in the Hudson River. Fundamental and Applied Limnology / Archiv Für Hydrobiologie 188 (3): 245 - 248. doi:10.1127/fal/2016/0888.
96. Nieder, W. C. , E. Barnaba, S. E. G. Findlay, S. Hoskins, N. Holochuck, and E. A. Blair. 2004. Distribution and abundance of submerged aquatic vegetation in the Hudson River Estuary. Journal of Coastal Research 45:150-161.
97. Nieder, W. C., S. Hoskins, S. D. Smith and S. E.G. Findlay.   2008.   Distribution and spatial change of Hudson River Estuary submerged aquatic vegetation: Implications for coastal management and natural resource protection.  In: X.Yang (ed). Remote Sensing and GIS for Coastal Ecosystem Assessment and Management: Principles and Applications   Springer-Verlag
98. Nitsche, F.O., R. Bell, S.M. Carbotte, W.B.F. Ryan, R. Flood, V. Ferrini, A. Slagle, C. McHugh,S. Chillrud, T. Kenna, D. Strayer, and R. Cerrato. 2005. High-resolution mapping of the Hudson River estuary reveals new insights on sedimentary processes and benthic habitats. EOS 86:225-229.
99. O’Neil, J.M., D. Taille, B. Walsh, W.C. Dennison, E.K. Bone, D.J. Reid, R. Newton, D.L. Strayer, K. Boicourt, L.B. Birney, and S. Janis. 2016. New York Harbor: resilience in the face of four centuries of development. Regional Studies in Marine Science. In review.
100. Osborne, R.I., M.J. Bernot, and S.E.G. Findlay. 2015. Changes in nitrogen cycling processes along a salinity gradient in tidal wetlands of the Hudson River, New York, USA. Wetlands 35:323-334.
101. Otto, S., P. M. Groffman, S. E. G. Findlay, and A. Arreola. 1999. Invasive plant species and microbial processes in a tidal freshwater marsh. Journal of Environmental Quality 28:1252-1257.
102. Pace, M. L. 1991. Comparative and experimental approaches to the study of microbial food webs. Journal of Protozoology 38:87-92.
103. Pace, M. L. 1993. Forecasting ecological responses to global change: The need for large-scale comparative studies. pp. 356-363. In: P. M. Karieva, J. G. Kingsolver, and R. B. Huey (eds.). Biotic Interactions and Global Change. Sinauer.
104. Pace, M. L. 2003. The utility of simple models in ecosystem science. Pp. 49-62 in: C. D. Canham, J. J. Cole, and W. D. Lauenroth (eds.). Models in ecosystem science. Princeton University Press.
105. Pace, M. L., S. B. Baines, H. Cyr, and J. A. Downing. 1993. Relationships among early life history stages of *Morone americana* and *Morone saxatilis* from long term monitoring of the Hudson River Estuary. Canadian Journal of Fisheries and Aquatic Sciences 50:1976-1985.
106. Pace, M.L., S.R. Carpenter, and J.J. Cole. 2015. With and without warning: managing ecosystems in a changing world. Frontiers in Ecology and the Environment 13: 460-467.
107. Pace, M.L., P. del Giorgio, D. Fischer, R. Condon, and H. Malcom. 2004. Estimates of bacterial production using the leucine incorporation method are influenced by differences in protein retention of microcentrifuge tubes. Limnology and Oceanography Methods 2:55-61.
108. Pace, M. L., S. E. G. Findlay, and D. Fischer. 1998. Effects of an invasive bivalve on the zooplankton community of the Hudson River. Freshwater Biology 39:103-116.
109. Pace, M. L., S. Findlay, and D. Lints. 1991. Variance in zooplankton samples: evaluation of a predictive model. Canadian Journal of Fisheries and Aquatic Sciences 48:146-151.
110. Pace, M. L., S. Findlay, and D. Lints. 1992. Zooplankton in advective environments: the Hudson River community and a comparative analysis. Canadian Journal of Fisheries and Aquatic Sciences. 49:1060-1069.
111. Pace, M. L., and D. J. Lonsdale. 2006. Ecology of the Hudson zooplankton community. pp. 217-229. In: J. S. Levinton and J. R. Waldman (eds.). The Hudson River Estuary. Cambridge University Press.
112. Pace, M.L., D.L. Strayer, D.T. Fischer, and H.M. Malcom. 2010. Increased mortality of zebra mussels associated with recovery of zooplankton in the Hudson River. Ecosphere 1(1):art3. doi:10.1890/ES10-00002.1.
113. Peierls, B. L., N. F. Caraco, M. L. Pace, and J. J. Cole. 1991. Human influence on river nitrogen. Nature 350:386-387.
114. Raymond, P.A., J.E. Bauer, N.F. Caraco, J.J. Cole, B. Longworth, and S.T. Petsch. 2004. Controls on the variability of organic matter and dissolved inorganic carbon age in Northeast U.S. Rivers. Marine Chemistry 92:353-366.
115. Raymond, P. A., N. F. Caraco, and J. J. Cole. 1997. CO2 concentration and atmospheric flux in the Hudson River. Estuaries 20:383-358.
116. Raymond, P. A., and J. J. Cole. 2001. Gas exchange in rivers and estuaries: choosing a gas transfer velocity. Estuaries 24:312-317.
117. Roditi, H., N. F. Caraco, J. J. Cole, and D. L. Strayer. 1996. Filtration of the Hudson River by the invading zebra mussel (*Dreissena polymorpha*). Estuaries 19:824-832.
118. Roditi, H., D. L. Strayer, and S. Findlay. 1997. Characteristics of zebra mussel (*Dreissena polymorpha*) biodeposits in a tidal freshwater estuary. Archiv für Hydrobiologie 140:207-219.
119. Roland, F., N. F. Caraco, J. J. Cole, and P. A. del Giorgio. 1999. Rapid and precise determination of dissolved oxygen by spectrophotometry: evaluation of interference from color and turbidity. Limnology and Oceanography 44:1148-1154.
120. Roland, F., and J. J. Cole. 1999. Predicting bacterial growth efficiency in a large turbid river. Verhandlungen der Internationale Vereinigung für Theoretische und Angewandte Limnologie 27:2846-2947.
121. Roland, F., and J. J. Cole. 1999. Regulation of bacterial growth efficiency in a large turbid estuary. Aquatic Microbial Ecology 20:31-38.
122. Roman, C., N. Jaworski, F. Short, S. Findlay, and S. Warren. 2000. Estuaries of the northeastern United States: habitat and land use signatures. Estuaries 23:743-764.
123. Seekell, D.A., and M.L. Pace. 2011. Climate change drives warming in the Hudson River estuary, New York (USA). Journal of Environmental Monitoring 13: 2321-2327.
124. Sinsabaugh, R. L., and S. Findlay. 1995. Microbial production, enzyme activity, and carbon turnover in surface sediments of the Hudson River Estuary. Microbial Ecology 30:127-141.
125. Sinsabaugh, R. L., S. Findlay, P. Franchini, and D. Fischer. 1997. Enzymatic analysis of riverine bacterioplankton production. Limnology and Oceanography 42:39-44.
126. Smircich, Michael G., David L. Strayer, and Eric T. Schultz. 2017. “Zebra Mussel (Dreissena Polymorpha) Affects The Feeding Ecology Of Early Stage Striped Bass (Morone Saxatilis) In The Hudson River Estuary”. Environmental Biology Of Fishes 100 (4): 395 - 406. doi:10.1007/s10641-016-0555-0.
127. Smith, T. E., R. J. Stevenson, N. F. Caraco, and J. J. Cole. 1998. Changes in phytoplankton community structure during the zebra mussel (*Dreissena polymorpha*) invasion of the Hudson River, New York. Journal of Plankton Research 20:1567-1579.
128. Sousa, R., A. Novais, R. Costa, and D.L. Strayer. 2014. Invasive bivalves in fresh waters: impacts from individuals to ecosystems and possible control strategies. Hydrobiologia 735: 233-251.
129. Strayer, D. 1987. Ecology and zoogeography of the freshwater mollusks of the Hudson River Basin. Malacological Review 20:1-68.
130. Strayer, D. L. 1991. Projected distribution of the zebra mussel, *Dreissena polymorpha*, in North America. Canadian Journal of Fisheries and Aquatic Sciences 48:1389-1395.
131. Strayer, D. L. 1999. Effects of alien species on freshwater mollusks in North America. Journal of the North American Benthological Society 18:74-98.
132. Strayer, D. L. 1999. Invasion of fresh waters by saltwater animals (comment). Trends in Ecology and Evolution 14:448-449.
133. Strayer, D.L. 2006. Alien species in the Hudson River. pp. 296-310. In: J.S. Levinton and J.R. Waldman (eds.). The Hudson River estuary. Cambridge University Press.
134. Strayer, D.L. 2006. The benthic animal communities of the tidal-freshwater Hudson River estuary. pp. 266-278. In: J.S. Levinton and J.R. Waldman (eds.). The Hudson River estuary. Cambridge University Press.
135. Strayer, D.L. 2009. Twenty years of zebra mussels: lessons from the mollusk that made headlines. Frontiers in Ecology and the Environment 7:135-141.
136. Strayer, D.L. 2010. Alien species in fresh waters: ecological effects, interactions with other stressors, and prospects for the future. Freshwater Biology 55 (Supplement 1): 152-174.
137. Strayer, D.L. 2012. The Hudson primer: the ecology of an iconic river. University of California Press. 207 pp.
138. Strayer, D.L. 2014. Understanding how nutrient cycles and freshwater mussels (Unionoida) affect one another. Hydrobiologia 735: 277-292.
139. Strayer, D. L., Adamovich, B. V., Adrian, R., Aldridge, D. C., Balogh, C., Burlakova, L. E., Fried‐Petersen, H. B., G.‐Tóth, L., Hetherington, A. L., Jones, T. S., Karatayev, A. Y., Madill, J. B., Makarevich, O. A., Marsden, J. E., Martel, A. L., Minchin, D., Nalepa, T. F., Noordhuis, R., Robinson, T. J., Rudstam, L. G., Schwalb, A. N., Smith, D. R., Steinman, A. D., and Jeschke, J. M.. 2019. Long‐term population dynamics of dreissenid mussels (*Dreissena polymorpha* and *D. rostriformis*): a cross‐system analysis. *Ecosphere* 10( 4):e02701.
140. Strayer, D.L., E.A. Blair, N.F. Caraco, J.J. Cole, S. Findlay, W.C. Nieder, and M.L. Pace. 2005. Interactions between alien species and restoration of large-river ecosystems. Archiv für Hydrobiologie Supplementband. 155:133-145.
141. Strayer, D. L., N. F. Caraco, J. J. Cole, S. Findlay, and M. L. Pace. 1999. Transformation of freshwater ecosystems by bivalves: A case study of zebra mussels in the Hudson River. BioScience 49:19-27.
142. Strayer D.L., Fischer D.T., Hamilton S.K., Malcom H.M., Pace M.L., Solomon C.T. Long-term variability and density dependence in Hudson River Dreissena populations. Freshwater Biology. 2019. https://doi.org/10.1111/fwb.13444
143. Strayer, D.L., N. Cid, and H.M. Malcom. 2011. Long-term changes in a population of an invasive bivalve and its effects. Oecologia 165: 1063-1072.
144. Strayer, D.L., J.J. Cole, S.E.G. Findlay, D.T. Fischer, J.A. Gephart, H.M. Malcom, M.L. Pace, and E.J. Rosi-Marshall. 2014. Decadal-scale change in a large-river ecosystem. BioScience 64: 496-510.
145. Strayer, D.L., J.A. Downing, W.R. Haag, T.L. King, J.B. Layzer, T.J. Newton, and S.J. Nichols. 2004. Changing perspectives on pearly mussels, North America's most imperiled animals. BioScience 54:429-439.
146. Strayer, David L., Rita Adrian, David C. Aldridge, Csilla Balogh, Lyubov E. Burlakova, Hannah B. FriedPetersen, Laszlo G-Toth, et al. “Long-Term Population Dynamics Of Dreissenid Mussels (Dreissena Polymorpha And D. Rostriformis): A Cross-System Analysis”. Ecosphere 10. doi:10.1002/ecs2.2701.
147. Strayer, D.L. V.T. Eviner, J.M. Jeschke, and M.L. Pace. 2006. Understanding the long-term effects of species invasions. Trends in Ecology and Evolution 21:645-651.
148. Strayer, D.L., and S.E.G. Findlay.  2010.  The ecology of freshwater shore zones.  Aquatic Sciences 72: 127-163.
149. Strayer, D.L., and S.E.G. Findlay. 2017. Ecological performance of Hudson River shore zones: what we know and what we need to know. *In*: D.M. Bilkovic, M. Mitchell, J. Toft, and M. La Peyre (editors). Living Shorelines: The Science and Management of Nature-based Coastal Protection. Taylor and Francis. .
150. Strayer, D.L., S.E.G. Findlay, D. Miller, H.M. Malcom, D.T. Fischer, and T. Coote. 2012. Biodiversity in Hudson River shore zones: influence of shoreline type and physical structure. Aquatic Sciences 74: 597-610.
151. Strayer, DL, Fischer, DT, Hamilton, SK, Malcom, HM, Pace, ML, Solomon, CT. Long-term variability and density dependence in Hudson River Dreissena populations. Freshwater Biology. 2020; 65: 474-489. doi: 10.1111/fwb.13444.
152. Strayer, DL, Hamilton, SK, Malcom, HM. 2021. Long-term increases in shell thickness in Elliptio complanata (Bivalvia: Unionidae) in the freshwater tidal Hudson River. Freshwater Biology. 66: 1375– 1381. https://doi.org/10.1111/fwb.13723
153. Strayer, D.L., K. Hattala, and A. Kahnle. 2004. Effects of an invasive bivalve (*Dreissena polymorpha*) on fish populations in the Hudson River estuary. Canadian Journal of Fisheries and Aquatic Sciences. 61:924-941.
154. Strayer, D.L., K.A. Hattala, A.W. Kahnle, and R.D. Adams. 2014. Has the Hudson River fish community recovered from the zebra mussel invasion along with its forage base? Canadian Journal of Fisheries and Aquatic Sciences 71: 1146-1157.
155. Strayer, D. L., D. C. Hunter, L. C. Smith, and C. K. Borg. 1994. Distribution, abundance, and roles of freshwater clams (Bivalvia, Unionidae) in the freshwater tidal Hudson River. Freshwater Biology 31:239-248.
156. Strayer, D.L., E. Kiviat, S.E.G. Findlay, and N. Slowik. 2016. Vegetation of riprapped revetments along the freshwater tidal Hudson River, New York. Aquatic Sciences 78: 605-614. doi:10.1007/s00027-015-0445-0.
157. Strayer, D.L., C. Lutz, H.M. Malcom, K. Munger, and W.H. Shaw. 2003. Invertebrate communities associated with a native (*Vallisneria americana*) and an alien (*Trapa natans*) macrophyte in a large river. Freshwater Biology 48:1938-1949.
158. Strayer, D.L. and Malcom, H.M. (2012), Causes of recruitment failure in freshwater mussel populations in southeastern New York. Ecological Applications, 22: 1780-1790. https://doi.org/10.1890/11-1536.1
159. Strayer, D.L., and H.M. Malcom. 2006. Long-term demography of a zebra mussel (*Dreissena polymorpha*) population. Freshwater Biology 51:117-130.
160. Strayer, D.L., and H.M. Malcom. 2007. Effects of zebra mussels (Dreissena polymorpha) on native bivalves: the beginning of the end or the end of the beginning? Journal of the North American Benthological Society 26:111-122.
161. Strayer, D.L., and H.M. Malcom. 2014. Long-term change in the Hudson River’s bivalve populations: a history of multiple invasions (and recovery?). Pages 71-81 *In*: T.F. Nalepa and D.W. Schloesser (editors). Quagga and Zebra Mussels: Biology, Impacts, and Control. Second edition.
162. David L. Strayer and Heather M. Malcom, 2018. Long-term responses of native bivalves (Unionidae and Sphaeriidae) to a *Dreissena* invasion. Freshwater Science 37: 697-711.
163. Strayer, D.L., H.M. Malcom, R.E. Bell, S. Carbotte, and F. Nitsche. 2006. Combining geophysical and biological information to define benthic habitats in the Hudson River. Freshwater Biology 51:25-38.
164. Strayer, D.L., and H.M. Malcom. 2007. Submersed vegetation as habitat for invertebrates in the Hudson River estuary. Estuaries and Coasts 30: 253-264.
165. Strayer, D.L., M.L. Pace, N.F. Caraco, J.J. Cole, and S.E.G. Findlay. 2008. Hydrology and grazing jointly control a large-river food web. Ecology 89:12-18.
166. Strayer, D. L., J. Powell, P. Ambrose, L. C. Smith, M. L. Pace, and D. T. Fischer. 1996. Arrival, spread, and early dynamics of a zebra mussel (*Dreissena polymorpha*) population in the Hudson River estuary. Canadian Journal of Fisheries and Aquatic Sciences 53:1143-1149.
167. Strayer, D. L., and L. C. Smith. 1993. The distribution of *Dreissena polymorpha* in estuaries and brackish waters. pp. 715-727. In: T. F. Nalepa and D. W. Schloesser (eds). Zebra Mussels: Biology, Impact and Control. Lewis Publishers, Ann Arbor, MI.
168. Strayer, D. L., and L. C. Smith. 1996. Relationships between zebra mussels (*Dreissena polymorpha*) and unionid clams during the early stages of the zebra mussel invasion of the Hudson River. Freshwater Biology 36:771-779.
169. Strayer, D. L., and L. C. Smith. 2000. Macroinvertebrates of a rocky shore in the freshwater tidal Hudson River. Estuaries 23:359-366.
170. Strayer, D. L., and L. C. Smith. 2001. The zoobenthos of the freshwater tidal Hudson River and its response to the zebra mussel (*Dreissena polymorpha*) invasion. Archiv für Hydrobiologie Supplementband (Monographic Studies) 131:1-52.
171. Strayer, D. L., L. C. Smith, and D. C. Hunter. 1998. Effects of the zebra mussel (*Dreissena polymorpha*) invasion on the macrobenthos of the freshwater tidal Hudson River. Canadian Journal of Zoology 76:419-425.
172. Strayer, D.L., Solomon, C.T., Findlay, S.E.G. and Rosi, E.J. (2019), Long‐term research reveals multiple relationships between the abundance and impacts of a non‐native species. Limnol Oceanogr, 64: S105-S117.
173. Tall, L., Caraco, N., and Maranger, R. 2011. Denitrification hot spots: dominant role of invasive macrophyte *Trapa natans* in removing nitrogen from a tidal river. Ecological Applications 21: 3104-3114.
174. Teixeira, M.C., M.P. Budd, and D.L. Strayer. 2015. Responses of epiphytic aquatic macroinvertebrates to hypoxia. Inland Waters 5: 75-80.
175. Templer, P., S. Findlay, and C. Wigand. 1998. Sediment nutrient chemistry associated with native and non-native emergent macrophytes of a Hudson River marsh ecosystem. Wetlands 18:70-78.
176. Vaqué, D., M. L. Pace, S. Findlay, and D. Lints. 1992. Fate of bacterial production in a heterotrophic ecosystem: grazing by protozoans and metazoans in the Hudson Estuary. Marine Ecology Progress Series 89:155-163.
177. Waldman, J., K. Limburg, and D. Strayer. 2006. The Hudson River environment and its dynamic fish community. In: J.R. Waldman, K.E. Limburg, and D.L. Strayer (editors). Hudson River fishes and their environment. American Fisheries Society Symposium 51:1-7.
178. Waldman, J. R., K. E. Limburg, and D. L. Strayer (eds.). 2006. Hudson River fishes and their environment. American Fisheries Society Symposium 51.
179. Wigand, C., M. Finn, S. Findlay, D. Fischer. 2001. Submersed macrophyte effects on nutrient cycling in riverine sediments: contribution of "New" inputs. Estuaries 24:398-406.
180. Wilkinson, G.M., J.J. Cole, and M.L. Pace. 2015. Deuterium as a food source tracer: sensitivity to environmental water, lipid content, and hydrogen exchange. Limnology and Oceanography Methods 13: 213-223.