

ROBERT N. STAVINS

*A. J. Meyer Professor of Energy & Economic Development
Director, Harvard Environmental Economics Program
Director, Harvard Project on Climate Agreements
John F. Kennedy School of Government, Harvard University*

Address:

Harvard Kennedy School, Mailbox #11
79 John F. Kennedy Street, Office: Littauer 306
Cambridge, MA 02138

Phone: (617) 495-182

Fax: (617) 496-3783

E-Mail: robert_stavins@hks.harvard.edu

Internet: www.stavins.com

EDUCATION: Ph.D. Harvard University, Economics, June 1988
M.S. Cornell University, Agricultural Economics
B.A. Northwestern University, Philosophy

RESEARCH AND TEACHING FOCUS: Environmental & Natural Resource Economics and Policy

PUBLICATIONS:

Articles in Journals

- “The Evolution of Environmental Economics: A View from the Inside.” *The Singapore Economic Review*, Vol. 62, No. 2 (2017) 251-274. [A-88]
- “Lessons Learned from Three Decades of Experience with Cap and Trade.” *Review of Environmental Economics and Policy*, Volume 11, Number 1, Summer 2017, pp. 59-79. With R. Schmalensee. [A-87]
- “Reforming the IPCC’s Assessment of Climate Change Economics.” *Climate Change Economics*, Volume 7, Number 1, January 2016. With G. Chan, C. Carraro, O. Edenhofer, and C. Kolstad. [A-86]
- “The IPCC at a Crossroads: Opportunities for Reform.” *Science*, Volume 350, Issue 6256, pp. 34-35, October 2, 2015. With C. Carraro, O. Edenhofer, C. Flaschland, C. Kolstad, and R. Stowe. [A-85]
- “Facilitating Linkage of Climate Policies through the Paris Outcome.” *Climate Policy*, August 5, 2015. With D. Bodansky, S. Hoedl, and G. Metcalf. [A-84]
- “Assessment and Communication of the Social Science of Climate Change: Bridging Research and Policy.” *Review of Environment, Energy, and Economics*, February 25, 2015. With C. Carraro & C. Kolstad. [A-83]
- “Linkage of Greenhouse Gas Emissions Trading Systems: Learning from Experience.” *Climate Policy*, February 4, 2015. With M. Ranson. [A-82]
- “An Economic Perspective on the EPA’s Clean Power Plan.” *Science*, Volume 336, Issue 6211, November 14, 2014, pp. 815-816. With M. Fowlie, L. Goulder, M. Kotchen, S. Borenstein, J. Bushnell, L. Davis, M. Greenstone, C. Kolstad, C. Knittel, M. Wara, F. Wolak, and C. Wolfram. [A-81]
- “Film Review: David Leonard, A Year in Burgundy.” *Journal of Wine Economics* 9(2014): 100-103. [A-80]
- “Film Review: David Roach and Warwick Ross, Red Obsession.” *Journal of Wine Economics* 8(2013): 355-360. [A-79]
- “Film Review: Jason Wise, Somm.” *Journal of Wine Economics* 8(2013): 238-241. [A-78]
- “The SO₂ Allowance Trading System: The Ironic History of a Grand Policy Experiment.” *Journal of Economic Perspectives*, Volume 27, Number 1, Winter 2013, pp. 103-122. With R. Schmalensee. [A-77]
- “Post-Durban Climate Policy Architecture Based on Linkage of Cap-and-Trade Systems.” *The Chicago Journal of International Law*, Volume 13, Number 2, Winter 2013, pp. 403-438. With M. Ranson. [A-76]

- “Climate Negotiators Create an Opportunity for Scholars.” *Science*, August 31, 2012, Volume 337, Number 6098, pp. 1043-1044. With J.E. Aldy. [A-75]
- “The Effect of Allowance Allocations on Cap-and-Trade System Performance.” *The Journal of Law and Economics* 54(4), 2011, (published August, 2012), pp. S267-S294. With R.W. Hahn. [A-73]
- “The SO₂ Allowance Trading System and the Clean Air Act Amendments of 1990: Reflections on 20 Years of Policy Innovation.” *National Tax Journal* 65(2), June 2012, pp. 419-452. With G. Chan, R. Stowe, and R. Sweeney. [A-72]
- “The Promise and Problems of Pricing Carbon: Theory and Experience.” *Journal of Environment and Development* 21(2) 2012: 152-180. With J. E. Aldy. [A-71]
- “Using the Market to Address Climate Change: Insights from Theory and Experience.” *Daedalus* 141(2), Spring 2012, pp. 45-60. With J. E. Aldy. [A-70]
- “An Unambiguous Consequence of the Durban Climate Talks.” *Review of Environment, Energy, and Economics*, March 9, 2012, pp. 1-4. [A-69]
- “Three Key Elements of Post-2012 International Climate Policy Architecture.” *Review of Environmental Economics and Policy*, Winter 2012, Volume 6, Number 2, pages 1-22. With S. M. Olmstead. [A-68]
- “The Value of Terroir: Hedonic Estimation of Vineyard Sale Prices.” *Journal of Wine Economics*, Volume 6, Number 1, 2011, pp. 1-14. With R. Cross and A.J. Plantinga. [A-67]
- “Challenges from State-Federal Interactions in U.S. Climate Change Policy.” *American Economic Review Papers and Proceedings*, volume 101, number 3, May 2011, pages 253-257. With L.H. Goulder. [A-66]
- “What Is the Value of Terroir?” *American Economic Review Papers and Proceedings*, volume 101, number 3, May 2011, pages 152-156. With R. Cross and A.J. Plantinga. [A-65]
- “Qué sucedió y por qué?” (“What Happened and Why? An Assessment of the Cancun Agreements”) *Foreign Affairs Latinoamérica*, Volume 11, Number 1, March 2011, pp. 42-49. [A-64]
- “The Problem of the Commons: Still Unsettled After 100 Years.” *American Economic Review* 101(2011):81-108. [A-63]
- “Corporate Social Responsibility, Business Strategy, and the Environment.” *Oxford Review of Economic Policy* 26.2 (June 2010): 164-181. With F.L. Reinhardt. [A-62]
- “What Hath Copenhagen Wrought? A Preliminary Assessment.” *Environment*, Volume 52, Number 3, May/June 2010, pp. 8-14. With R.C. Stowe. [A-61]
- “Storing Carbon in Wood: A Cheaper Way to Slow Climate Change?” *The Milken Institute Review*, volume 12, number 1, 2010, pp. 18-25. [A-60]
- “Linking Tradable Permit Systems: A Key Element of Emerging International Climate Policy Architecture.” *Ecology Law Quarterly* 36(2010):789-808. With M. Ranson and J. Jaffe. [A-59]
- “Comparing Price and Non-Price Approaches to Urban Water Conservation.” *Water Resources Research*, 45 (2009), W04301. With S.M. Olmstead. [A-58]
- “Addressing Climate Change with a Comprehensive U.S. Cap-and-Trade System.” *The Oxford Review of Economic Policy*, Volume 24, Number 2, 2008, pp. 298-321. Reprinted in *Environmental Law and Policy Annual Review*, Volume 39, August 2009, pp. 10752-10766. Reprinted in Dieter Helm and Cameron Hepburn, editors, *The Economics and Politics of Climate Change*, pp. 197-221, New York: Oxford University Press, 2009. [A-57]
- “Corporate Social Responsibility Through An Economic Lens.” *Review of Environmental Economics and Policy* 2(2008): 219-239. With F. Reinhardt and R. Vietor. [A-56]
- “What Drives Land-Use Change in the United States? A National Analysis of Landowner Decisions.” *Land Economics* 84(2008): 529-550. With R.N. Lubowski and A.J. Plantinga. [A-55]
- “A Meaningful U.S. Cap-and-Trade System to Address Climate Change.” *Harvard Environmental Law Review* 32(2008): 293-371. [A-54]

- “Climate Policy Architectures for the Post-Kyoto World.” *Environment* 50(2008), May, number, 3, pp. 6-17. With J.E. Aldy. [A-53]
- “Water Demand Under Alternative Price Structures.” *Journal of Environmental Economics and Management* 54(2007): 181-198. With S.M. Olmstead and W. M. Hanemann. [A-52]
- “Book Review: Jancis Robinson, Tasting Pleasures — Confessions of a Wine Lover.” *Journal of Wine Economics*, Volume 2, Number 1, Spring 2007, pp. 106-108. [A-51]
- “On the Value of Formal Assessment of Uncertainty in Regulatory Analysis.” *Regulation and Governance* 1(2007):154-171. With J. Jaffe. [A-50]
- “Second-Best Theory and the Use of Multiple Policy Instruments.” *Environmental and Resource Economics* 37(2007):111-129. With L.S. Benneer. [A-49]
- “The Effects of Economic and Policy Incentives on Carbon Mitigation Technologies.” *Energy Economics* 28(2006):563-578. With R.G. Newell and A.B. Jaffe. [A-48]
- “An International Policy Architecture for the Post-Kyoto Era.” *American Economic Review Papers and Proceedings*, Volume 96, Number 2, May 2006, pp. 35-38. With S.M. Olmstead. [A-47]
- “Land-Use Change and Carbon Sinks: Econometric Estimation of the Carbon Sequestration Supply Function.” *Journal of Environmental Economics and Management* 51(2006): 135-152, With R.N. Lubowski and A.J. Plantinga. [A-46]
- “Vintage-Differentiated Environmental Regulation.” *Stanford Environmental Law Journal*, Volume 25, Number 1 (Winter 2006), pp. 29-63. [A-45]
- “Editorial Welcome.” *Journal of Wine Economics* 1(May 2006): 1. With K. Anderson, O. Ashenfelter, V. Ginsburgh, and K. Storchmann. [A-44]
- “Film Review: Alexander Payne, Sideways.” *Journal of Wine Economics* 1(May 2006): 91-93. [A-43]
- “Using Revealed Preferences to Infer Environmental Benefits: Evidence from Recreational Fishing Licenses.” *Journal of Regulatory Economics* 28(2005):157-179. With L.S. Benneer and A.F. Wagner. [A-42]
- “A Tale of Two Market Failures: Technology and Environmental Policy.” *Ecological Economics* 54(2005):164-174. With A.B. Jaffe and R.G. Newell. [A-41]
- “Forging a More Effective Global Climate Treaty.” *Environment* 46(2004), December, number 10, pp. 23-30. [A-40]
- “Increasing Participation and Compliance in International Climate Change Agreements.” *International Environmental Agreements: Politics, Law and Economics* 3(2003): 349-376. With S. Barrett. [A-39]
- “Thirteen Plus One: A Comparison of Global Climate Policy Architectures.” *Climate Policy*, volume 3, number 4, 2003, pages 373-397. With J.E. Aldy and S. Barrett. [A-38]
- “Environmental Regulation During the 1990s: A Retrospective Analysis.” *Harvard Environmental Law Review*, volume 27, number 2, 2003, pp. 377-415. With R.W. Hahn and S.M. Olmstead. [A-37]
- “The Effects of Environmental Regulation on Technology Diffusion: The Case of Chlorine Manufacturing.” *American Economic Review* 93(2003):431-435. With N. Miller and L. Snyder. [A-36]
- “Interpreting Sustainability in Economic Terms: Dynamic Efficiency Plus Intergenerational Equity.” *Economic Letters* 79(2003):339-343. With A.F. Wagner and G. Wagner. [A-35]
- “Cost Heterogeneity and the Potential Savings from Market-Based Policies.” *Journal of Regulatory Economics* 23(1):43-59, January 2003. With R.N. Newell. [A-34]
- “The Effects of Potential Land Development on Agricultural Land Prices.” *Journal of Urban Economics* 52(2002):561-581. With A.J. Plantinga and R.N. Lubowski. [A-33]
- “An Eye on the Future: How Economists' Controversial Practice of Discounting Really Affects the Evaluation of Environmental Policies.” *Nature*, Volume 419, October 17, 2002, pp. 673-674. With L.H. Goulder. [A-32]

- “Environmental Policy and Technological Change.” *Environment and Resource Economics* 22(2002):41-69. With A.B. Jaffe and R.N. Newell. [A-31]
- “Climate Change and Forest Sinks: Factors Affecting the Costs of Carbon Sequestration.” *Journal of Environmental Economics and Management* 40(2000):211-235. With R. Newell. [A-30]
- “The Costs of Carbon Sequestration: A Revealed-Preference Approach.” *American Economic Review*, volume 89, number 4, September 1999, pp. 994-1009. (Copyright Permission) [A-29]
- “The Induced Innovation Hypothesis and Energy-Saving Technological Change.” *Quarterly Journal of Economics*, volume 114, issue 3, August 1999, pp. 941-975. With R.G. Newell and A.B. Jaffe. Reprinted in *Technological Change and the Environment*, eds. A. Grubler, N. Nakicenovic, and W.D. Nordhaus, Washington, D.C., Resources for the Future, 2002. [A-28]
- “How Economists See the Environment.” *Nature*, volume 395, pp. 433-434, October 1, 1998. With D. Fullerton. [A-27]
- “What Can We Learn from the Grand Policy Experiment? Positive and Normative Lessons from SO₂ Allowance Trading.” *Journal of Economic Perspectives*, Volume 12, Number 3, pages 69-88, Summer 1998. [A-26]
- “The Choice of Regulatory Instruments in Environmental Policy.” *Harvard Environmental Law Review*, volume 22, number 2, pp. 313-367, 1998. With N. Keohane and R. Revesz. Reprinted in *Land Use and Environmental Law Review*, volume 30, September 1999. [A-25]
- “Significant Issues for Environmental Policy and Air Regulation for the Next Decade.” *Environmental Science and Policy* 1(1998):143-147. [A-24]
- “A Methodological Investigation of the Costs of Carbon Sequestration.” *Journal of Applied Economics* 1(1998):231-277. [A-23]
- “Policy Instruments for Climate Change: How Can National Governments Address a Global Problem?” *The University of Chicago Legal Forum*, volume 1997, pp. 293-329. [A-22]
- “Crafting the Next Generation of Market-Based Environmental Tools.” *Environment* 39, number 4 (1997), pp. 12-20, 30-33.. With J. Hockenstein and B. Whitehead. [A-21]
- “Review of *Valuing Climate Change* by Samuel Fankhauser.” *Journal of Economic Literature* 34(1996):1999-2000. [A-20]
- “Is There a Role for Benefit-Cost Analysis in Environmental, Health, and Safety Regulation?” With K. Arrow, M. Cropper, G. Eads, R. Hahn, L. Lave, R. Noll, P. Portney, M. Russell, R. Schmalensee, and K. Smith. *Science*, April 12, 1996. [A-19]
- “Correlated Uncertainty and Policy Instrument Choice.” *Journal of Environmental Economics and Management* 30(1996):218-232. [A-18]
- “Dynamic Incentives of Environmental Regulation: The Effects of Alternative Policy Instruments on Technology Diffusion.” *Journal of Environmental Economics and Management* 29(1995):S43-S63. With A.B. Jaffe. [A-17]
- “Transaction Costs and Tradeable Permits.” *Journal of Environmental Economics and Management* 29(1995):133-148. [A-16]
- “Environmental Regulation and the Competitiveness of U.S. Manufacturing: What Does the Evidence Tell Us?” *Journal of Economic Literature* 33(1995):132-163. With A.B. Jaffe, S.R. Peterson, and P.R. Portney. [A-15]
- “The Energy Efficiency Gap: What Does It Mean?” *Energy Policy* 22(1994):804-810. With A.B. Jaffe. [A-14]
- “The Energy Paradox and the Diffusion of Conservation Technology.” *Resource and Energy Economics* 16(1994): 91-122. With A.B. Jaffe. [A-13]
- “Energy-Efficiency Investments and Public Policy.” *The Energy Journal*, volume 15, number 2, 1994, pages 43-65. With A.B. Jaffe. [A-12]
- “Regulatory Review of Environmental Policy: The Potential Role of Health-Health Analysis.” *Journal of Risk and Uncertainty* 8(1994):111-122. With P.R. Portney. [A-11]
- “Comments on 'Lethal Model 2: The Limits to Growth Revisited' by William Nordhaus.” *Brookings Papers on Economic Activity*, No. 2, pp. 44-50, 1992. [A-10]

- “Pollution Charges for Environmental Protection: A Policy Link Between Energy and Environment.” *Annual Review of Energy and the Environment* 17(1992):187-210. With B.W. Whitehead. [A-9]
- “Economic Incentives for Environmental Protection: Integrating Theory and Practice.” *American Economic Review* 82(1992):464-468. With R.W. Hahn. (Copyright Permission) [A-8]
- “Dealing with Pollution.” *Environment* 34, number 7(1992), September, pp. 7-11, 29-42. With B.W. Whitehead. Reproduced in *An Environmental Law Anthology*, eds. Robert Fischman, Maxine Lipeles, and Mark Squillace. Cincinnati: Anderson Publishing Company, 1996. [A-7]
- “Incentive-Based Environmental Regulation: A New Era From An Old Idea?” *Ecology Law Quarterly* 18(1991):1-42. With R.W. Hahn. [A-6]
- “Alternative Renewable Resource Strategies: A Simulation of Optimal Use.” *Journal of Environmental Economics and Management* 19(1990):143-159. [A-5]
- “Unintended Impacts of Public Investments on Private Decisions: The Depletion of Forested Wetlands.” *American Economic Review* 80(1990):337-352. With A.B. Jaffe. (Copyright Permission) [A-4]
- “Clean Profits: Using Economic Incentives to Protect the Environment.” *Policy Review*. Spring 1989, Number 48, pp. 58-63. [A-3]
- “Harnessing Market Forces to Protect the Environment.” *Environment* 31(1989), January/February, number 1, pp. 4-7, 28-35. [A-2]
- “A Model of English Demographic Change: 1573-1873.” *Explorations in Economic History*, volume 25, pp. 98-116, January 1988. [A-1]

Books, Authored and Edited

- Economics of Climate Change and Environmental Policy: Selected Papers of Robert N. Stavins, 2000-2011*. Northampton, Massachusetts: Edward Elgar Publishing, Inc., 2013. [B-10]
- Economics of the Environment: Selected Readings*. Fourth, Fifth, and Sixth Editions. New York: W. W. Norton & Company, 2000, 2005, 2012. [B-9]
- Post-Kyoto International Climate Policy: Implementing Architectures for Agreement*. New York: Cambridge University Press, 2010. With J.E. Aldy. [B-8]
- Post-Kyoto International Climate Policy: Summary for Policymakers*. New York: Cambridge University Press, 2009. With J.E. Aldy. [B-7]
- Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*. New York: Cambridge University Press, 2007. With J.E. Aldy. [B-6]
- Environmental Protection and the Social Responsibility of Firms: Perspectives from Law, Economics, and Business*. Washington, D.C.: Resources for the Future Press, 2005. Edited with B. Hay and R. Vietor. [B-5]
- The Political Economy of Environmental Regulation*. Northampton, Massachusetts: Edward Elgar Publishing, Inc., 2004. [B-4]
- Environmental Economics and Public Policy: Selected Papers of Robert N. Stavins, 1988-1999*. Northampton, Massachusetts: Edward Elgar Publishing, Inc., 2001. [B-3]
- Public Policies for Environmental Protection*. Washington, D.C.: Resources for the Future, 2000. Edited with P.R. Portney. [B-2]
- The Welfare Economics of Alternative Renewable Resource Strategies: Forested Wetlands and Agricultural Production*. New York: Garland Publishing, Inc., 1990. [B-1]

Chapters in Books

- “From the Science to the Economics and Politics of Climate Change: An Introduction.” *Our World and Us: How Our Environment and Our Societies Will Change*, ed. Katinka Barysch, Chapter 1, pp. 20-36. Munich, Germany: Allianz Group, 2015. [C-37]
- “Linkage of Regional, National, and Sub-National Policies in a Future International Climate Agreement.” *Towards a Workable and Effective Climate Regime*, Chapter 20, pp. 283-296. London, England: Center for Economic Policy Research, 2015. [C-36]
- “International Cooperation: Agreements and Instruments.” *Climate Change 2014: Mitigation*, Intergovernmental Panel on Climate Change, Fifth Assessment Report, Working Group III, Chapter 13. Cambridge, England: Cambridge University Press, 2015. With Zou Ji, T. Brewer, M.C. Grand, M. Elzen, M. Finus, J. Gupta, N. Hohne, M.K. Lee, A. Michaelowa, M. Paterson, K. Ramakrishna, G. Wen, J. Wiener, and H. Winkler. [C-35]
- “Summary for Policymakers.” *Climate Change 2014: Mitigation*, Intergovernmental Panel on Climate Change, Fifth Assessment Report, Working Group III. Cambridge, England: Cambridge University Press, 2015. With all other Coordinating Lead Authors plus selected Lead Authors. [C-34]
- “Navigating a Two-Way Street Between Academia and the Policy World.” Introduction to *Economics of Climate Change and Environmental Policy: Selected Papers of Robert N. Stavins, Volume II, 2000-2011*. Northampton, Massachusetts: Edward Elgar Publishing, Inc., 2013. [C-33]
- “Designing the Post-Kyoto Climate Regime.” *The Quest for Security*, eds. Joseph E. Stiglitz and Mary H. Kaldor. New York: Columbia University Press, 2013, pp. 205-230. With J.E. Aldy. [C-32]
- “Interactions Between State and Federal Climate Change Policies.” *The Design and Implementation of U.S. Climate Policy*, eds., Don Fullerton and Catherine Wolfram, Chapter 7, pp. 109-121. Cambridge: National Bureau of Economic Research, 2012. With L.H. Goulder. [C-31]
- “Towards a Post-Kyoto International Climate Policy Regime.” *Beyond Copenhagen: A Climate Policymaker’s Handbook*, eds. Juan Delgado and Stephen Gardner, pp. 53-62. Brussels, Belgium: Bruegel Books, 2009. [C-30]
- “Environmental Economics.” *The New Palgrave Dictionary of Economics, 2nd Edition*, eds. Lawrence Blume and Steven Durlauf. London, Palgrave Macmillan Ltd, 2008. [C-29]
- “A Meaningful Second Commitment Period for the Kyoto Protocol.” *The Economists’ Voice: Top Economists Take on Today’s Problems*, eds. Joseph E. Stiglitz, Aaron S. Edlin, and J. Bradford DeLong, pp. 28-36. New York: Columbia University Press, 2008. With S.M. Olmstead. [C-28]
- “An International Policy Architecture for the Post-Kyoto Era.” *Global Warming: Looking Beyond Kyoto*, ed. Ernesto Zedillo, pp. 145-153. Washington, D.C.: Brookings Institution Press, 2008. [C-27]
- “Market-Based Environmental Policies: What Can We Learn From U.S. Experience (and Related Research)?” *Moving to Markets in Environmental Regulation: Lessons from Twenty Years of Experience*, eds. Jody Freeman and Charles Kolstad, pp. 19-47. New York: Oxford University Press, 2007. [C-26]
- “Environmental Law.” *Handbook of Law and Economics, Volume I*, eds. A. Mitchell Polinsky and Steven Shavell, pp. 499-589. Amsterdam: Elsevier Science, 2007. With R.L. Revesz. [C-25]
- “Implications of the U.S. Experience with Market-Based Environment Strategies for Future Climate Policy.” *Emissions Trading for Climate Policy: U.S. and European Perspectives*, ed. Bernd Hansjürgens, pp. 63-77. New York: Cambridge University Press, 2005. [C-24]
- “Environmental Protection and Economic Well-Being: How Does (and How Should) Government Balance These Two Important Values?” *Tackling the Critical Conundrum: How Do Business, Government and Media Balance Economic Growth and a Healthy Environment?*, ed. John A. Riggs, pp. 43-56. Washington, D.C.: The Aspen Institute, 2004. [C-23]
- “Introduction.” *The Political Economy of Environmental Regulation*. Northampton, Massachusetts: Edward Elgar Publishing, Inc., 2004. [C-22]
- “Economics of Energy Efficiency.” *Encyclopedia of Energy*. Volume 2, pp. 79-90. Elsevier, 2004. [C-21]

- “Technology Policy for Energy and the Environment.” *Innovation Policy and the Economy*, Volume 4, eds. Adam B. Jaffe, Josh Lerner, and Scott Stern, Chapter 2, pp. 35-68. Cambridge, Massachusetts: The MIT Press for the National Bureau of Economic Research, 2004. With A.B. Jaffe and R.G. Newell. [C-20]
- “Technological Change and the Environment.” *Handbook of Environmental Economics*, Volume I, eds. Karl-Göran Mäler and Jeffrey Vincent, Chapter 11, pp. 461-516. Amsterdam: Elsevier Science, 2003. With A.B. Jaffe and R.G. Newell. [C-19]
- “Experience with Market-Based Environmental Policy Instruments.” *Handbook of Environmental Economics, Volume I*, eds. Karl-Göran Mäler and Jeffrey Vincent, Chapter 9, pp. 355-435. Amsterdam: Elsevier Science, 2003. [C-18]
- “Lessons from the American Experiment with Market-Based Environmental Policies.” *Market-Based Governance: Supply Side, Demand Side, Upside, and Downside*, eds. John D. Donahue and Joseph S. Nye, Jr., pp. 173-200. Washington: The Brookings Institution, 2002. [C-17]
- “National Environmental Policy During the Clinton Years.” *American Economic Policy in the 1990s*, eds. Jeffrey A. Frankel and Peter R. Orszag, pages 583-660. Cambridge: MIT Press, 2002. With R.W. Hahn. [Note: For a PDF file that can be downloaded, please see “Environmental Regulation During the 1990s: A Retrospective Analysis,” Harvard Environmental Law Review, above, in section titled, “Academic Journals”] [C-16]
- “Economic Analysis of Global Climate Change Policy: A Primer.” *Climate Change: Science, Strategies, and Solutions*, eds. E. Claussen, V.A. Cochran, and D.P. Davis. Boston: Brill Publishing, 2001. [C-15]
- “Policies, Measures, and Instruments.” *Climate Change 2001: Mitigation*, Intergovernmental Panel on Climate Change, Third Assessment Report, Working Group III, Chapter 6. Cambridge, England: Cambridge University Press, 2001. With I. Bashmakov, C. Jepma, P. Bohm, S. Gupta, E. Haites, T. Heller, J.P. Montero, A. Pasc-Font, J. Turkson, H. Xu, and M. Yamaguchi. [C-14B]
- “A Two-Way Street Between Environmental Economics and Public Policy.” Introduction to *Environmental Economics and Public Policy: Selected Papers of Robert N. Stavins, 1988-1999*. Northampton, Massachusetts: Edward Elgar Publishing, Inc., 2001. [C-14A]
- “Market-Based Environmental Policies.” *Public Policies for Environmental Protection*, eds. Paul R. Portney and Robert N. Stavins. Washington, D.C.: Resources for the Future, 2000. [C-14]
- “Introduction.” *Public Policies for Environmental Protection*, eds. Paul R. Portney and Robert N. Stavins. Washington, D.C.: Resources for the Future, 2000. With P.R. Portney. [C-13]
- “The Positive Political Economy of Instrument Choice in Environmental Policy.” *Environmental and Public Economics: Essays in Honor of Wallace Oates*, eds. Arvind Panagariya, Paul Portney, and Robert Schwab, pp. 89-125. London: Edward Elgar, Ltd., 1999. With N. Keohane and R. Revesz. [C-12]
- “Economic Incentives for Environmental Regulation.” *The New Palgrave Dictionary of Economics and the Law*, ed. P. Newman. London: The Macmillan Press, 1998. [C-11]
- “Market-Based Environmental Policies.” *Thinking Ecologically: The Next Generation of Environmental Policy*, eds. M. Chertow and D. Esty, pp. 105-117. New Haven: Yale University Press, 1997. With B. Whitehead. [C-10]
- “Policy Instruments to Combat Climate Change.” *Climate Change 1995: Economic and Social Dimensions of Climate Change*, Intergovernmental Panel on Climate Change, Second Assessment Report, Working Group III, Chapter 11. Cambridge, England: Cambridge University Press, 1996. With S. Barrett, P. Bohm, B. Fisher, M. Kuroda, J. Mubazi, A. Shah. [C-9]
- “Environmental Policy in a Transition Economy: Designing Tradeable Permits for Poland.” ENRP Discussion Paper E-95-01, John F. Kennedy School of Government, Harvard University, January 1995. With T. Zyllicz. [C-8]
- “Decision-Making Tools for Environmental Policy.” *Proceedings of VI Repsol-Harvard Seminar on Energy Policy*, pp. 77-84, S'Agaro, Spain, June 1995. [C-7]
- “Trading in Greenhouse Permits: A Critical Examination of Design and Implementation Issues.” *Shaping National Responses to Climate Change: A Post-Rio Policy Guide*, ed. Henry Lee, pp. 177-217. Cambridge: Island Press, 1995. With R.W. Hahn. [C-6]

- “Harnessing Market Forces to Protect the Environment.” *Overcoming Indifference: Ten Key Challenges in Today's Changing World*, ed. Klaus Schwab. New York: New York University Press, 1995. [C-5]
- “Developments at the Interface of U.S. Energy and Environmental Policy.” *Energy and the Environment: Evolving Challenges and Opportunities*, pp. 1-33. Cambridge: Harvard International Energy Studies, Number Seven, 1994. With H. Lee and R.G. Newell. [C-4]
- “Economic Incentives for Environmental Protection.” *McGraw-Hill Encyclopedia of Economics*, pp. 321-324. New York: McGraw-Hill, Inc., 1993. With R.W. Hahn. [C-3]
- “The Greening of the Market.” *Mandate for Change*, eds. Will Marshall and Martin Schram, pp. 197-216. New York, New York: Berkley Book, 1993. With T. Grumbly. [C-2]
- “Toward a New Era of Environmental Policy.” *Regulating for the Future: The Creative Balance*, ed. Carol Tucker Foreman, pp. 133-173. Washington, D.C.: Center for National Policy Press, 1991. [C-1]

Selected Articles in Public Policy and Other Periodicals

- “The Economics (and Politics) of Trump’s Paris Withdrawal.” *PBS NewsHour Making Sense*, June 6, 2017. [D-156]
- “Will the Trump Administration Realize the Many Benefits of Paris?” *The Environmental Forum*, Volume 34, Number 4, July/August 2017, p. 17. [D-155]
- “Why Trump Pulled the U.S. Out of the Paris Accord.” *Foreign Affairs*, June 5, 2017. [D-154]
- “Goodbye Paris, Hello Nicaragua: Why Trump’s Withdrawal From The Climate Accord Is Bad For America.” WGBH News Commentary, June 2, 2017. [D-153]
- “California’s Climate-Change Advances Could Be Jeopardized by Ill-Conceived Senate Bill.” *The Sacramento Bee*, May 9, 2017. [D-152]
- “Why the US Should Stay in the Paris Climate Agreement.” *The Boston Globe*, April 21, 2017. [D-151]
- “Is President Trump’s Climate Policy an Oxymoron?” *The Environmental Forum*, Volume 34, Number 3, May/June 2017, p. 17. [D-150]
- “California Steps Forward on Climate but Emphasizes a Poor Policy Choice.” *The Environmental Forum*, Volume 34, Number 2, March/April 2017, p. 15. [D-149]
- “Onerous for Experts, IPCC Process in Danger of Becoming Politicized.” *The Environmental Forum*, Volume 34, Number 1, January/February 2017, p. 15. [D-148]
- “What Does Trump’s Victory Mean for Climate Change Policy?” *PBS NewsHour Making Sense*, November 11, 2016. [D-147]
- “Goodbye to the Climate.” Op-Ed, *The New York Times*, November 10, 2016. [D-146]
- “New Emissions Targets Make Cap and Trade the Best Low-Cost, Market-Based Approach.” *The Sacramento Bee*, October 30, 2016. With L. H. Goulder. [D-145]
- “A Key Challenge for Sustained Success of the Paris Agreement.” *The Environmental Forum*, Volume 33, Number 6, November/December 2016, p. 15. [D-144]
- “Cap-and-Trade: How California Can Lead on Climate Policy.” *The Environmental Forum*, Volume 33, Number 5, September/October 2016, p. 15. [D-143]
- “The Ever-Evolving Interrelationship Between GDP and Carbon Dioxide.” *The Environmental Forum*, Volume 33, Number 4, July/August 2016, p. 17. [D-142]
- “The Paris Agreement Lays a Good Foundation for Climate Progress.” *The Environmental Forum*, Volume 33, Number 3, May/June 2016, p. 13. [D-141]

“The Paris Agreement – A Good Foundation for Meaningful Progress.” *Newsletter, Green Fiscal Policy Network*, Issue 4, March 2016, pp. 1-4. [D-140]

“State’s Low Carbon Fuel Standard Doesn’t Cut Net Emissions.” *Capitol Weekly*, January 27, 2016. [D-139]

“Trade Talks Can Follow Path of Paris Climate Change Agreement.” *The Environmental Forum*, Volume 33, Number 2, March/April 2016, p. 15. [D-138]

“Thanks to Paris, We Have a Foundation for Meaningful Progress.” *The Conversation*. December 17, 2015. [D-137]

“COP21 is on Track as Countries Drop Their More Unfeasible Ambitions.” *The Conversation*. December 7, 2015. [D-136]

“A Five-Point Scorecard that Predicts Success at the Paris Climate Talks.” *The Conversation*. November 26, 2015. [D-135]

“What the WTO Can Learn from Paris Climate Talks.” *The Boston Globe*, December 7, 2015. With R. Lawrence. [D-134]

“Are the Pope’s Critiques of Markets on Point or Somewhat Misguided?” *The Environmental Forum*, Volume 33, Number 1, January/February 2016, p. 15. [D-133]

“A Key Element for the Climate Talks.” *The Environmental Forum*, Volume 32, Number 6, November/December 2015, p. 14. [D-132]

“Is Cheap Oil Good News or Bad?” *The Environmental Forum*, Volume 32, Number 5, September/October 2015, p. 14. [D-131]

“Assessing the Energy Paradox.” *The Environmental Forum*, Volume 32, Number 4, July/August 2015, p. 14. [D-130]

“The IPCC at a Crossroads.” *The Environmental Forum*, Volume 32, Number 3, May/June 2015, p. 16. [D-129]

“The UN’s Climate Change Body Looks Inward to Move Ahead.” *The Conversation*. March 9, 2015. [D-128]

“COP-20 in Lima: A New Way Forward.” *The Environmental Forum*, Volume 32, Number 2, March/April, 2015, p. 14. [D-127]

“A Breakthrough Climate Accord in Lima But a Tough Road to Paris.” *The Conversation*. January 29, 2015. [D-126]

“When Leaders Meet in Paris.” *The Environmental Forum*, Volume 32, Number 1, January/February, 2015, p. 14. [D-125]

“Should Endowments Divest Their Holdings in Fossil Fuels? No, The Symbolic Act Would Achieve Little and Cost Much.” *Wall Street Journal*, November 24, 2014, p. R4. [D-124]

“Pricing Carbon: Promises, Problems.” *The Environmental Forum*, Volume 31, Number 6, November/December, 2014, p. 16. [D-123]

“UN Summit Can Accelerate Momentum to a New Approach to Climate Change.” *The Boston Globe*, September 24, 2014. [D-122]

“Climate Realities.” *The New York Times*, Sunday Review, September 21, 2014, p. SR6. [D-121]

“Local Costs and Global Benefits.” *The Environmental Forum*, Volume 31, Number 5, September/October, 2014, p. 14. [D-120]

“Understanding the IPCC’s Products.” *The Environmental Forum*, Volume 31, Number 4, July/August, 2014, p. 14. [D-119]

“The Only Feasible Way of Cutting Emissions.” Room for Debate, Sunday Review, *The New York Times*, June 1, 2014. [D-118]

“Chinese and U.S. Climate Interests are Converging.” *China Dialogue*, May 6, 2014. [D-117]

“The Problem with EU Renewables.” *The Environmental Forum*, Volume 31, Number 3, May/June, 2014, p. 14. [D-116]

“Divestment is No Substitute for Real Action on Climate Change.” *Yale Environment 360*, March 20, 2014. [D-115]

“A Convergence of Interests at COP-19.” *The Environmental Forum*, Volume 31, Number 2, March/April, 2014, p. 14. [D-114]

- “Fossil Divestment: Warranted & Wise?” *The Environmental Forum*, Volume 31, Number 1, January/February, 2014, p. 14. [D-113]
- “Why the US and China Inspire Hope for International Climate Change Action.” *PBS NewsHour, The Business Desk*. December 5, 2013. [D-112]
- “AB 32: The Whole World is Watching.” *The Environmental Forum*, Volume 30, Number 6, November/December, 2013, p. 14. [D-111]
- “Closing the Energy-Efficiency Gap.” *The Environmental Forum*, Volume 30, Number 5, September/October, 2013, p. 14. [D-110]
- “Reflections on a Personal Milestone.” *The Environmental Forum*, Volume 30, Number 4, July/August, 2013, p. 14. [D-109]
- “Action and Inaction in the Second Term.” *The Environmental Forum*, Volume 30, Number 3, May/June, 2013, p. 14. [D-108]
- “The Sordid History of Congressional Acceptance and Rejection of Cap-and-Trade: Implications for Climate Policy.” *Vox*, March 7, 2013. With R. Schmalensee. [D-107]
- “The Ninth Largest Economy Steps Up.” *The Environmental Forum*, Volume 30, Number 2, March/April, 2013, p. 14. [D-106]
- “Is Obama's Climate Change Policy Doomed to Fail? Maybe Not.” *PBS NewsHour, The Business Desk*. March 1, 2013. [D-105]
- “Why the Grass is Always Greener.” *The Environmental Forum*, Volume 30, Number 1, January/February, 2013, p. 16. [D-104]
- “From Berlin to Durban to Doha.” *The Environmental Forum*, Volume 29, Number 6, November/December, 2012, p. 14. [D-103]
- “The U.S. Sulphur Dioxide Cap and Trade Programme and Lessons for Climate Policy.” *Vox*, August 12, 2012. With G. Chan, R. Stowe, and R. Sweeney. [D-102]
- “Independence is Important: Coase.” *The Environmental Forum*, Volume 29, Number 5, September/October, 2012, p. 14. [D-101]
- “An Unambiguous Consequence of the Durban Climate Talks.” *Green Orbis Magazine*, July-September, 2012, pp. 24-31. [D-100a]
- “Climate Policy: A Breath of Fresh Air.” *The Environmental Forum*, Volume 29, Number 4, July/August, 2012, p. 14. [D-100]
- “Oenonomy: What’s in a Wine’s Name?” *The Environmental Forum*, Volume 29, Number 3, May/June, 2012, p. 14. [D-99]
- “Reduce Emissions by Investing in New Technologies.” Interview, *Green Orbis Magazine*, April-June, 2012, pp. 56-59. [D-98a]
- “Did the Durban Meeting Succeed?” *The Environmental Forum*, Volume 29, Number 2, March/April, 2012, p. 14. [D-98]
- “Rahm’s Doctrine Revisited, Revised.” *The Environmental Forum*, Volume 29, Number 1, January/February, 2012, p. 14. [D-97]
- “A Wave of the Future: International Linkage of Carbon Markets.” *Outreach*, Stakeholderforum.org, December 5, 2011, pages 4-5. [D-96]
- “The National Context of U.S. State Policies for a Global Commons Problem.” *Perspectives: Progressing Towards Post-2012 Carbon Markets*, pp. 49-57. Roskilde, Denmark: United Nations Environment Program, December, 2011. [D-95]
- “Polarized Politics Paralyze Policy.” *The Environmental Forum*, Volume 28, Number 6, November/December, 2011, p. 18. [D-94]
- “Good News from Regulatory Front.” *The Environmental Forum*, Volume 28, Number 5, September/October, 2011, p. 16. [D-93]

“A Century of Progress, Problems.” *The Environmental Forum*, Volume 28, Number 4, July/August, 2011, p. 16. [D-92]

“Does Less and Costs More.” *The Environmental Forum*, Volume 28, Number 3, May/June, p. 16. [D-91]

“Cancun Produces Meaningful Steps.” *The Environmental Forum*, Volume 28, Number 2, March/April, 2011, p. 16. [D-90]

“Curbing Carbon.” *Technology Review*, March/April, 2011, p. 10. [D-89]

“Repairing the R&D Market Failure.” *The Environmental Forum*, Volume 28, Number 1, January/February, 2011, p. 16. [D-88]

“Why Cancun Trumped Copenhagen: Warmer Relations on Rising Temperatures.” Op-Ed, *The Christian Science Monitor*, December 20, 2010. [D-87]

“Knowing Success if You See It.” *Outreach*, November 29, 2010, pp. 1-3. [D-86]

“Renewable Irony.” *The Huffington Post*, Op-Ed, November 24, 2010. With R. Schmalensee. [D-85]

“AB 32 and Climate Change: The National Context of State Policies for a Global Commons Problem.” *Agricultural & Resource Economics Update*, Volume 14, Number 1, September/October, 2010, pp. 2-5. [D-84]

“In Defense of Pollution Markets.” *The Environmental Forum*, Volume 27, Number 6, November/December, 2010, p. 16. [D-83]

“Beware Scorched-Earth Strategies.” *The Environmental Forum*, Volume 27, Number 5, September/October, 2010, p. 14. [D-82]

“State Eyes on the Climate Policy Prize.” *The Environmental Forum*, Volume 27, Number 4, July/August, 2010, p. 16. [D-81]

“The Power of Cap-and-Trade.” *The Boston Globe*, July 27, 2010. With R. Schmalensee. [D-80]

“Two Countries Key to Progress in 2010.” *The Environmental Forum*, Volume 27, Number 3, May/June, 2010, p. 16. [D-79]

“The Path Forward for Climate Talks.” *The Environmental Forum*, Volume 27, Number 2, March/April, 2010, p. 18. [D-78]

“Why cap-and-trade should (and does) have appeal to politicians.” *Vox*, April 13, 2010. With R. Hahn. [D-77]

“Can We Afford to Cut Carbon?” *The Environmental Forum*, Volume 27, Number 1, January/February, 2010, p. 16. [D-76]

“Guest Commentary. A Portfolio of Domestic Commitments: Implementing Common but Differentiated Responsibilities.” *Carbon Market North America*, Volume 4, Issue 41, October 23, 2009, p. 6. [D-75]

“Worried About Competitiveness?” *The Environmental Forum*, Volume 26, Number 6, November/December, 2009, p. 18. [D-74]

“Can Countries Cut Carbon Emissions Without Hurting Economic Growth? Yes, the Transition Can be Gradual – and Affordable.” *The Wall Street Journal*, September 21, 2009. [D-73]

“The Essential Pillars of a New Climate Pact.” *The Boston Globe*, September 20, 2009. With S.M. Olmstead. [D-72]

“Wonderful Politics of Cap-and-Trade.” *The Environmental Forum*, Volume 26, Number 5, September/October, 2009, p. 16. [D-71]

“No Free Lunch at the Auto CAFE.” *The Environmental Forum*, Volume 26, Number 4, July/August, 2009, p. 16. [D-70]

“The Stimulus and Green Jobs.” *The Environmental Forum*, Volume 26, Number 3, May/June, 2009, p. 16. [D-69]

“Institutions and Individuals.” *The Environmental Forum*, Volume 26, Number 2, March/April, 2009, p. 18. [D-68]

“Opportunity for a Defining Moment.” *The Environmental Forum*, Volume 26, Number 1, January/February, 2009, p. 16. [D-67]

“AB 32 / Combating Global Warming.” *San Diego Union-Tribune*, Op-Ed, December 11, 2008. [D-66]

“Land-Use Change and Carbon Sinks.” *The Environmental Forum*, Volume 25, Number 6, November/December, 2008, p. 16. [D-65]

“Inspiration for Climate Change.” *The Boston Globe*, Op-Ed, November 12, 2008. [D-64]

“Ongoing Drivers of Wetlands Depletion.” *The Environmental Forum*, Volume 25, Number 5, September/October, 2008, p. 16. [D-63]

“CSR Through an Economic Lens.” *The Environmental Forum*, Volume 25, Number 4, July/August, 2008, p. 16. [D-62]

“Enviro Justice and Cap-and-Trade.” *The Environmental Forum*, Volume 25, Number 3, May/June, 2008, p. 20. [D-61]

“State Fight Against Climate Change Benefits Everyone.” *The Sacramento Bee*, March 16, 2008. With L.H. Goulder. [D-60]

“Linking Tradable Permit Systems.” *The Environmental Forum*, Volume 25, Number 2, March/April, 2008, p. 16. [D-59]

“Cap-and-Trade or a Carbon Tax?” *The Environmental Forum*, Volume 25, Number 1, January/February, 2008, p. 16. [D-58]

“Free greenhouse gas cuts: too good to be true?” *Vox*, January 3, 2008. With J. Jaffe and T. Schatzki. [D-57]

“A Sensible Way to Cut CO₂ Emissions.” *The Environmental Forum*, Volume 24, Number 6, November/December, 2007, p. 18. [D-56]

“Misconceptions About H₂O Pricing.” *The Environmental Forum*, Volume 24, Number 5, September/October, 2007, p. 18. [D-55]

“What is the Future of U.S. Coal?” *The Environmental Forum*, Volume 24, Number 4, July/August, 2007, p. 18. [D-54]

“Free GHG Cuts: Too Good to be True?” *The Environmental Forum*, Volume 24, Number 3, May/June, 2007, p. 16. [D-53]

“A Meaningful Second Commitment Period for the Kyoto Protocol.” *The Economist's Voice*, May, 2007, pp. 1-6. With S.M. Olmstead. [D-52]

“Tradable Permits: Fly in the Ointment?” *The Environmental Forum*, Volume 24, Number 2, March/April, 2007, p. 16. [D-51]

“Policies Can Work in Strange Ways.” *The Environmental Forum*, Volume 24, Number 1, January/February, 2007, p. 16. [D-50]

“As Reservoirs Fall, Prices Should Rise.” *The Environmental Forum*, Volume 23, Number 5, November/December, 2006, p. 14. [D-49]

“What Role for U.S. CO₂ Sequestration?” *The Environmental Forum*, Volume 23, Number 4, September/October, 2006, p. 14. [D-48]

“Is Benefit-Cost Analysis Helpful?” *The Environmental Forum*, Volume 23, Number 3, May/June, 2006, p. 14. [D-47]

“Review of *The Market for Virtue: The Potential and Limits of Corporate Social Responsibility*, by David Vogel.” *Environment*, April, 2006, p. 43. [D-46]

“A Utility Safety Valve for Cutting CO₂.” *The Environmental Forum*, Volume 23, Number 2, March/April, 2006, p. 14. [D-45]

“Some Straight Talk Needed About CSR.” *The Environmental Forum*, Volume 23, Number 1, January/February, 2006, p. 14. [D-44]

“Global Warming.” *The American Interest*, Volume I, No. 2, Winter 2005, Letters & Notes. [D-43]

“Don't Blame Romney: Support the Safety-Valve for the Regional Greenhouse Gas Initiative.” Op-Ed, *The Boston Globe*, December 10, 2005. [D-42]

“Does Econ Analysis Shortchange Future?” *The Environmental Forum*, Volume 22, Number 6, November/December 2005, p. 14. [D-41]

“What Baseball Can Teach Policymakers.” *The Environmental Forum*, Volume 22, Number 5, September/October 2005, p. 14. [D-40]

“The Making of a Conventional Wisdom.” *The Environmental Forum*, Volume 22, Number 4, July/August 2005, p. 10. [D-39]

“Regulating by Vintage: Put a Cork in It.” *The Environmental Forum*, Volume 22, Number 3, May/June 2005, p. 12. [D-38]

- “Lessons Learned from SO₂ Allowance Trading.” *Choices*, volume 20, number 1, 1st Quarter, 2005, pp. 53-57. [D-37]
- The Effects of Vintage-Differentiated Environmental Regulation. Related Publication 05-03. Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies, March 2005. [D-36]
- “Markets Can Make Fisheries Sustainable.” *The Environmental Forum*, Volume 22, Number 2, March/April 2005, p. 12. [D-35]
- “Beyond Kyoto: Getting Serious About Climate Change.” *The Milken Institute Review*, volume 7, number 1, 2005, pp. 28-37. [D-34]
- “A Better Climate Change Agreement.” *The Environmental Forum*, Volume 22, Number 1, January/February 2005, p. 12. [D-33]
- “A Tale of Two Taxes, A Challenge to Hill.” *The Environmental Forum*, Volume 21, Number 6, November/December, 2004, p. 12. [D-32]
- The Value of Formal Quantitative Assessment of Uncertainty in Regulatory Analysis. Related Publication 04-22. Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies, September 2004. With J. Jaffe. [D-31]
- “The Myths of Market Prices and Efficiency.” *The Environmental Forum*, Volume 21, Number 5, September/October 2004, p. 12. [D-30]
- “The Myth of Simple Market Solutions.” *The Environmental Forum*, Volume 21, Number 4, July/August 2004, p. 12. [D-29]
- “The Myth of the Universal Market.” *The Environmental Forum*, Volume 21, Number 3, May/June 2004, p. 12. [D-28]
- “Taking Fish to Market.” Op-Ed, *Forbes*, April 28, 2003, p. 40. [D-27]
- “A Better Way to Regulate Fishing.” Op-Ed, *The Boston Globe*, December 2, 2002. [D-26]
- “New Source Review Under the Clean Air Act: Ripe for Reform.” *Resources*, Issue 147, Spring 2002, pp. 19-23. With H. Gruenspecht. [D-25]
- “Brayton Point Power Plant: Weigh Costs to Benefit.” Op-Ed, *The Boston Business Journal*, June 21, 2002. [D-24]
- “A Level Field on Pollution at Power Plants.” Op-Ed, *The Boston Globe*, January 26, 2002. With H. Gruenspecht. [D-23]
- “Give Bush Time on Climate Issues.” Op-Ed, *The Boston Globe*, April 4, 2001. [D-22]
- “Review of Pollution for Sale: Emissions Trading and Joint Implementation, edited by Steve Sorrell and Jim Skea.” *Environment*, Volume 42, Number 3, April 2000, p. 45. [D-21]
- “Energy-Efficient Technologies and Climate Change Policies: Issues and Evidence.” *Climate Issue Brief* No. 19. Washington, D.C.: Resources for the Future, December 1999. With A.B. Jaffe and R.G. Newell. Reprinted in Toman, Michael A., ed., *Climate Change Economics and Policy*, pp. 171-181, Washington, D.C.: Resources for the Future, 2001. [D-20]
- “How to Stop Squandering Water? Raise Its Price.” Op-Ed, *New York Times*, August 14, 1999. [D-19]
- “Review of Economics and Policy Issues in Climate Change, edited by William Nordhaus.” *Environment*, Volume 41, Number 5, June 1999, p. 27. [D-18]
- “Economic Thinking in Environmental Coverage: It's Not Accounting.” *The Quill*, volume 84, number 1, January/February, 1996, pp. 31-34. [D-17]
- “Environmental Policy: Better Media Coverage of Risks Is Urged.” *Nieman Reports*, vol. 49, no. 3, Fall 1995, pp. 12-14. [D-16]
- “Transaction Costs and Markets for Pollution Control.” *Resources*, No. 119, Spring 1995. [D-15]
- “The Challenge of Going Green: A Perspective on Environmental Regulation and Competitiveness.” *Harvard Business Review*, July/August 1994, pp. 38-39. [D-14]
- “A Skeptic's View: There's No Free Lunch.” *The World Paper*, November 1993. [D-13A]
- “Market Forces Can Help Lower Waste Volumes” *Forum for Applied Research and Public Policy*, Spring 1993, volume 8, number 1, pp. 6-15. [D-13]

- “New Approaches to Environmental Cleanup.” *The Quill*, volume 81, number 8, October 1993, pp. 35-38. [D-12]
- “New, Cost-Conscious Environmentalism: Challenge is to 'Harness Power of Markets.'” *Roll Call*, volume 38, number 81, May 3, 1993, pp. 24-25. [D-11]
- “Green Taxes Would Reduce Pollution and Support Economic Growth.” *Governing*, April 1993, pp. 69-70. [D-10]
- “Making Use of the Market: Taxes, Tradeable Permits, and Global Climate Change.” *Issues in Science and Technology* 9(1992-93), number 2, pp. 22-23. [D-9]
- “Economic Instruments for Environmental Policy: Theory and Applications in the United States.” *Innovazione e Materie Prime*, No. 3, pp. 66-79, 1992. With R.W. Hahn. [D-8]
- “The Greening of Adam Smith.” *The New Democrat*, October 1992, pp. 15-17. With B.W. Whitehead. [D-7]
- “Harnessing the Marketplace.” *EPA Journal*, Volume 18, Number 2, May/June, 1992, pp. 21-25. [D-6]
- “Innovative Policies for Sustainable Development: The Role of Economic Incentives for Environmental Protection.” *Harvard Public Policy Review*, volume 7, number 1, pp. 13-25, Spring 1990. [D-5]
- “Environmental Accounting: Greening the Profit Motive.” *The World Paper*, September 1990, p. 1. [D-4]
- Conversion of Forested Wetlands to Agricultural Uses*. New York: Environmental Defense Fund (EDF), 1987. [D-3]
- The Tuolumne River: Preservation or Development?* Berkeley, CA: Environmental Defense Fund, October 1983. [D-2]
- Trading Conservation Investments for Water*. Berkeley, CA: Environmental Defense Fund, March 1983. [D-1]

Selected Government Reports

- “Comments on the Recommendations of the Market Advisory Committee to the California Air Resources Board, 'Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for California.'” Cambridge, Massachusetts, June 15, 2007. [E-11]
- Affordability Criteria for Small Drinking Water Systems*. EPA-SAB-EEAC-03-004. Washington, D.C., December 2002. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-10]
- Importance of Maintaining the Annual Pollution Abatement Cost and Expenditures (PACE) Survey*. EPA-SAB-EEAC-COM-02-001. Washington, D.C., January 15, 2002. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-9]
- Market Incentives*. EPA-SAB-EEAC-CON-02-002. Washington, D.C., December 18, 2001. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-8]
- An Approach to Developing a Research Agenda for Environmental Economics*. EPA-SAB-EEAC-CON-02-003. Washington, D.C., December 18, 2001. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-7]
- Trade and the Environment*. EPA-SAB-EEAC-CON-01-003. Washington, D.C., May 25, 2001. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-6]
- An SAB Report on EPA's White Paper Valuing the Benefits of Fatal Cancer Risk Reductions*. EPA-SAB-EEAC-00-013. Washington, D.C., July 27, 2000. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-5]
- Consultation on the Topic: Induced Travel: Does Additional Highway Capacity Influence Travel Demand?* EPA-SAB-EEAC-CON-00-002. Washington, D.C., December 7, 1999. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-4]

An SAB Report on the EPA Guidelines for Preparing Economic Analysis. EPA-SAB-EEAC-99-020. Washington, D.C., September, 1999. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-3]

Importance of Reinstating the Pollution Abatement and Control Expenditures (PACE) Survey. EPA-SAB-EEAC-COM-99-001. Washington, D.C., January 19, 1999. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-2]

An SAB Advisory on Economic Research Topics and Priorities. EPA-SAB-EEAC-ADV-98-005. Washington, D.C., September 22, 1998. With Members of the Environmental Economics Advisory Committee, U.S. Environmental Protection Agency Science Advisory Board. [E-1]

Current Working Papers

“Lessons Learned from Three Decades of Experience with Cap-and-Trade.” November, 2015. With R. Schmalensee.

Selected Monographs and Reports

“Assessing the Energy-Efficiency Gap.” Cambridge, Mass.: Harvard Environmental Economics Program, January 2015. With T.D. Gerarden and Richard G. Newell. [F-36]

“Facilitating Linkage of Heterogeneous Regional, National, and Sub-National Climate Policies Through a Future International Agreement.” Cambridge, Mass.: Harvard Project on Climate Agreements, November 2014. With D. Bodansky, S. Hoedl, and G. E. Metcalf. [F-35]

“An Assessment of the Energy-Efficiency Gap and its Implications for Climate-Change Policy.” Discussion Paper ES 2014-3. Cambridge, Mass.: Harvard Project on Climate Agreements, November 2014. With T.D. Gerarden, R.G. Newell, and R.C. Stowe. [F-34]

“Facilitating Linkage of Heterogeneous Regional, National, and Sub-National Climate Policies Through a Future International Agreement. Executive Summary.” Discussion Paper, Harvard Project on Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, September 2014. With D. Bodansky, S. Hoedl, and G. E. Metcalf. [F-33]

“Linkage of Greenhouse Gas Emissions Trading Systems: Learning from Experience.” Discussion Paper ES 2013-02, Harvard Project on Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, November 2013. With M. Ranson. [F-32]

Memorial Minute on the Life and Service of Robert Dorfman. November 2012. With J. Green, D. W. Jorgenson, and P. P. Rogers. [F-31]

Climate Negotiations Open a Window: Key Implications of the Durban Platform for Enhanced Action. Cambridge, Massachusetts: Harvard Project on Climate Agreements, September 2012. [F-30]

The SO₂ Allowance Trading System and the Clean Air Act Amendments of 1990: Reflections on Twenty Years of Policy Innovation. Cambridge: Harvard Environmental Economics Program, January 2012. With G. Chan, R. Stowe, and R. Sweeney. [F-29]

“In Brief: Meaningful and Cost-Effective Climate Policy: The Case for Cap-and-Trade.” Arlington, Virginia: Pew Center on Global Climate Change, June 2010. [F-28]

“Three Key Elements of Post-2012 International Climate Policy Architecture.” *Discussion Paper* 2010-37, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, June 2010. With S.M. Olmstead. [F-27]

“Options for the Institutional Venue for International Climate Negotiations.” *Issue Brief*, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, May 2010. [F-26]

- “A Portfolio of Domestic Commitments: Implementing Common but Differentiated Responsibilities.” *Viewpoint*, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, October 19, 2009. [F-25]
- “Linkage of Tradable Permit Systems in International Climate Policy Architecture.” The Harvard Project on International Climate Agreements, Discussion Paper 08-07, Cambridge, Massachusetts, September, 2008. With J. Jaffe. [F-24]
- Linking a U.S. Cap-and-Trade System for Greenhouse Gas Emissions: Opportunities, Implications, and Challenges*. Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies, January 2008. With J. Jaffe. [F-23]
- Linking Tradable Permit Systems for Greenhouse Gas Emissions: Opportunities, Implications, and Challenges*. Prepared for the International Emissions Trading Association, Geneva, Switzerland. November, 2007. With J. Jaffe. [F-22]
- A U.S. Cap-and-Trade System to Address Global Climate Change*. The Hamilton Project, Discussion Paper 2007-13. Washington, D.C.: The Brookings Institution, October 2007. [F-21]
- Managing Water Demand — Price vs. Non-Price Conservation Programs*. Pioneer Institute White Paper No. 39. Boston, Massachusetts: Pioneer Institute for Public Policy Research, July 2007. [F-20]
- “Too Good to be True? An Examination of Three Economic Assessments of California Climate Change Policy.” Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies, Related Publication 07-01, January 2007. With J. Jaffe and T. Schatzki. [F-19]
- The Cost of U.S. Forest-Based Carbon Sequestration*. Arlington, Virginia: Pew Center on Global Climate Change, January 2005. With K.R. Richards. [F-18]
- Amici Curiae Brief to U.S. Supreme Court Arguing that Natural Science Alone Cannot Provide a Basis for Risk Management Decisions*, No. 99-1257, September 11, 2000. Coordinated by C. Coglianese and G. Marchant. [F-17]
- Amici Curiae Brief to U.S. Supreme Court Recommending that EPA be Allowed to Consider Costs and Consequences of Environmental Regulations*, No. 99-1246, July 21, 2000. Coordinated by R. Litan and R. Hahn, AEI-Brookings Joint Center for Regulatory Studies, Washington, D.C. [F-16]
- What Has the Kyoto Protocol Wrought? The Real Architecture of International Tradeable Permit Markets*. Washington, D.C.: The AEI Press, 1999. With R.W. Hahn. [F-15]
- Readings in the Field of Natural Resource and Environmental Economics*. John F. Kennedy School of Government, Harvard University. Faculty Research Working Paper Series, R99-02, June 1999. With A. Pfaff. [F-14]
- “Environmental Protection: The Changing Nature of National Governance.” Prepared for discussion at workshop on “Visions of Governance for the Twenty-First Century,” Bretton Woods, New Hampshire, July 20-23, 1997. [F-13]
- “Nordic Joint Implementation Negotiations: Evaluation of an Experiment.” November 5, 1996. With S. Barrett and J. Hourcade. [F-12]
- “Benefit-Cost Analysis in Environmental, Health, and Safety Regulation.” Washington, D.C.: American Enterprise Institute, The Annapolis Center, and Resources for the Future, 1996. With K. Arrow, M. Cropper, G. Eads, R. Hahn, L. Lave, R. Noll, P. Portney, M. Russell, R. Schmalensee, and K. Smith. [F-11]
- “Harnessing Market Forces for a Diversified Forest Economy, Summary of Project 88/Round II Workshop Proceedings, September 24, 1992.” CSIA, Kennedy School of Government, Harvard University. [F-10]
- “Market-Based Mechanisms for Addressing Global Climate Change, Summary of Project 88/Round II Workshop Proceedings, March 12, 1992.” CSIA, Kennedy School of Government, Harvard University. [F-9]
- “Market-Based Policy Mechanisms for Toxic and Hazardous Substance Management, Project 88/Round II Workshop Proceedings, January 16, 1992.” CSIA, Kennedy School of Government, Harvard, #P-92-01, March 1992. [F-8]
- The Greening of America’s Taxes: Pollution Charges and Environmental Protection*. Policy Report No. 13, Progressive Policy Institute, Washington, D.C., February 1992. [F-7A]
- “Market-Based Strategies for Environmental Protection: A Tribute to Senator John Heinz of Pennsylvania, Forum Proceedings, May 16, 1991.” CSIA, Project 88 — Round II, Discussion Paper #91-6, September 1991. [F-7]

“Incentive-Based Policies for Municipal Solid Waste Management, Summary of Workshop Proceedings, May 16, 1991.”
CSIA, Project 88 — Round II, Discussion Paper #91-7, September 1991. [F-6]

Project 88 — Round II, Incentives for Action: Designing Market-Based Environmental Strategies. A Public Policy Study sponsored by Senator Timothy E. Wirth, Colorado, and Senator John Heinz, Pennsylvania. Washington, D.C.: May 1991. (editor) [F-5]

“Project 88 Conference, Harnessing Market Forces to Protect the Environment.” EEPIC Staff Paper M-89-02, John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, August 1989. [F-4]

Project 88 - Harnessing Market Forces to Protect Our Environment: Initiatives for the New President. A Public Policy Study sponsored by Senator Timothy E. Wirth, Colorado, and Senator John Heinz, Pennsylvania. Washington, D.C.: December 1988. (editor) [F-3]

“The Welfare Economics of Alternative Renewable Resource Strategies: Forested Wetlands and Agricultural Production.”
Ph.D. thesis, Harvard University, Cambridge, Massachusetts, May 1988. Published in 1990 by Garland Publishing, Inc. [F-2]

“Forecasting the Size Distribution of Farms: A Methodological Analysis of the Dairy Industry in New York State.” M.S. thesis, Cornell University, Ithaca, New York, May 1979. [F-1]

Blog Posts: An Economic View of the Environment

“Trump’s Paris Withdrawal: The Nail in the Coffin of U.S. Global Leadership?” June 6, 2017.

“Why Trump Pulled the U.S. Out of the Paris Accord.” June 5, 2017.

“Why the U.S. Should Remain in the Paris Climate Agreement.” April 22, 2017.

“Delighted and Depressed.” March 31, 2017.

“An Explanation and Apology.” February 5, 2017.

“Trying to Remain Positive.” January 3, 2017.

“What Does the Trump Victory Mean for Climate Policy?” November 10, 2016.

“This is Not a Time for Political Neutrality.” October 9, 2016.

“A Key Moment for California Climate Policy.” September 20, 2016.

“Market Mechanisms in the Paris Climate Agreement: International Linkage under Article 6.2.” August 1, 2016.

“Misleading Talk about Decoupling CO2 Emissions and Economic Growth.” May 2, 2016.

“The Future Role of Economics in the IPCC.” April 4, 2016.

“Can the WTO Take a Lesson from the Paris Climate Playbook?” January 31, 2016.

“Paris Agreement: A Good Foundation for Meaningful Progress.” December 12, 2015.

“Paris Can be a Key Step.” November 17, 2015.

“The Papal Encyclical and Climate Change Policy.” October 5, 2015.

“A Key Element for the Forthcoming Paris Climate Agreement.” September 1, 2015.

“A Key Moment is Coming for the IPCC’s Future.” July 8, 2015.

“Crude Oil Prices, Climate Change, and Global Welfare.” May 27, 2015.

“Assessing the Energy-Efficiency Gap.” May 6, 2015.

“When Reasonable Policy Discussions Become Unreasonable Personal Attacks.” March 22, 2015.

“The IPCC at a Crossroads.” February 26, 2015.

“A Challenge for the 2015 Paris Climate Agreement.” February 2, 2015.

“Assessing the Outcome of the Lima Climate Talks.” December 14, 2014.

“What to Expect at COP-20 in Lima.” December 1, 2014.

“The Final Stage of IPCC AR5 — Last Week’s Outcome in Copenhagen.” November 4, 2014.

“What Can Universities Do About Climate Change?” October 20, 2014.

“The UN Climate Summit and a Key Issue for the 2015 Paris Agreement.” September 27, 2014.

“What are the Benefits and Costs of EPA’s Proposed CO2 Regulation?” June 19, 2014.

“EPA’s Proposed Greenhouse Gas Regulation: Why are Conservatives Attacking its Market-Based Options?” June 5, 2014.

“Understanding the IPCC: An Important Follow-Up.” May 3, 2014.

“Is the IPCC Government Approval Process Broken?” April 25, 2014.

“Can There Be a Positive Prognosis for Climate Negotiations?” March 15, 2014.

“Will Europe Scrap its Renewables Target? That Would Be Good News for the Economy and for the Environment.”
January 18, 2014.

“The Warsaw Climate Negotiations, and Reason for Cautious Optimism.” November 28, 2013.

“Climate Change, Public Policy, and the University.” October 22, 2013.

“Remembering Ronald Coase’s Contributions.” September 12, 2013.

“Economics and Politics in California: Cap-and-Trade Allowance Allocation and Trade Exposure.” August 16, 2013.

“The Importance of Getting it Right in California.” July 30, 2013.

“Thinking About the Energy-Efficiency Gap.” June 19, 2013.

“On the Origins of Research.” March 17, 2013.

“On Becoming an Environmental Economist.” February 19, 2013.

“The Second Term of the Obama Administration.” January 27, 2013.

“Reflections from Cambridge on the Climate Talks in Doha.” December 20, 2012.

“While International Climate Negotiations Continue, the World’s Ninth Largest Economy Takes an Important Step Forward.” December 1, 2012.

“Cap-and-Trade, Carbon Taxes, and My Neighbor’s Lovely Lawn.” October 21, 2012

“A Challenge for Climate Negotiators, and an Opportunity for Scholars.” September 2, 2012.

“Two Notable Events Prompt Examination of an Important Property of Cap-and-Trade.” July 21, 2012.

“Can Market Forces Really be Employed to Address Climate Change?” May 26, 2012.

“Low Prices a Problem? Making Sense of Misleading Talk about Cap-and-Trade in Europe and the USA.” April 25, 2012.

“If the Durban Platform Opened a Window, Will India and China Close It?” March 16, 2012.

“Reflections on Twenty Years of Policy Innovation.” February 3, 2012

“Economics of the Environment, Sixth Edition.” January 8, 2011.

“The Platform Opens a Window: An Unambiguous Consequence of the Durban Climate Talks.” January 1, 2012.

“Assessing the Climate Talks—Did Durban Succeed?” December 12, 2011.

“Can the Durban Climate Negotiations Succeed?” November 28, 2011.

“The Promise and Problems of Pricing Carbon.” October 30, 2011.

“What’s Good for the Goose is Good for the Gander: Rahm’s Doctrine and Mercutio’s Complaint.” September 25, 2011.

“The Credit Downgrade and the Congress: Why Polarized Politics Paralyze Public Policy.” August 11, 2011.

“A Golden Opportunity to Please Conservatives and Liberals Alike.” July 24, 2011.

“Canada’s Step Away from the Kyoto Protocol Can Be a Constructive Step Forward.” June 10, 2011.

“Misguided Objection to Progressive Policy: The EJ Lawsuit Against Implementation of California’s AB 32 Climate Policy.” May 23, 2011.

“Good News from the Regulatory Front.” April 25, 2011.

“A Wave of the Future: International Linkage of National Climate Change Policies.” March 31, 2011.

“Reflecting on a Century of Progress and Problems.” February 21, 2011.

“Pursuing Real Environmental Justice in California.” January 31, 2011.

“Renewable Energy Standards: Less Effective, More Costly, but Politically Preferred to Cap-and-Trade?” January 11, 2011.

“Why Cancun Trumped Copenhagen.” January 1, 2011.

“What Happened (and Why): An Assessment of the Cancun Agreements.” December 13, 2010.

“Defining Success for Climate Negotiations in Cancun.” November 19, 2010.

“Both Are Necessary, But Neither is Sufficient: Carbon-Pricing and Technology R&D Initiatives in a Meaningful National Climate Policy.” October 21, 2010.

“AB 32, RGGI, and Climate Change: The National Context of State Policies for a Global Commons Problem.” October 1, 2010.

“In Defense of Markets.” September 11, 2010.

“Beware of Scorched-Earth Strategies in Climate Debates.” July 27, 2010.

“The Real Options for U.S. Climate Policy.” June 23, 2010.

“Here We Go Again: A Closer Look at the Kerry-Lieberman Cap-and-Trade Proposal.” May 18, 2010.

“Eyes on the Prize: Federal Climate Policy Should Preempt State and Regional Initiatives.” April 22, 2010.

“Who Killed Cap-and-Trade?” March 28, 2010.

“Opportunities and Ironies: Climate Policy in Tokyo, Seoul, Brussels, and Washington.” March 21, 2010.

“What’s the Proper Role of Individuals and Institutions in Addressing Climate Change?” March 8, 2010.

“Any Hope for Meaningful U.S. Climate Policy? A Somewhat Positive View.” February 8, 2010.

“Unintended Consequences of Government Policies: The Depletion of America’s Wetlands.” January 27, 2010.

“Another Copenhagen Outcome: Serious Questions About the Best Institutional Path Forward.” January 5th, 2010.

“What Hath Copenhagen Wrought? A Preliminary Assessment of the Copenhagen Accord.” December 20, 2009.

“Chaos and Uncertainty in Copenhagen?” December 18, 2009.

“Only Private Sector Can Meet Finance Demands of Developing Countries.” December 14, 2009.

“Defining Success for Climate Negotiations in Copenhagen.” December 7, 2009.

“Approaching Copenhagen with a Portfolio of Domestic Commitments.” November 29, 2009.

“Confusion in the Senate Regarding Allowance Allocation.” October 22, 2009.

“Cap-and-Trade versus the Alternatives for U.S. Climate Policy.” October 5, 2009.

“Can Countries Cut Carbon Emissions Without Hurting Economic Growth?” September 24, 2009.

“Three Pillars of a New Climate Pact.” September 21, 2009.

“Too Good to be True?” September 16, 2009.

“What is the Future of U.S. Coal?” September 3, 2009.

“Cap-and-Trade: A Fly in the Ointment? Not Really.” August 12, 2009.

“Policies Can Work in Strange Ways.” July 30, 2009.

“What Role for U.S. Carbon Sequestration?” July 21, 2009.

“Is Benefit-Cost Analysis Helpful for Environmental Regulation?” July 8, 2009.

“National Climate Change Policy: A Quick Look Back at Waxman-Markey and the Road Ahead.” June 29, 2009.

“Worried About International Competitiveness? Another Look at the Waxman-Markey Cap-and-Trade Proposal.” June 18, 2009.

“The Wonderful Politics of Cap-and-Trade: A Closer Look at Waxman-Markey.” May 27, 2009.

“The New Auto Fuel-Efficiency Standards — Going Beyond the Headlines.” May 21, 2009.

“Straight Talk about Corporate Social Responsibility.” May 12, 2009.

“Does economic analysis shortchange the future?” April 27, 2009.

“What Baseball Can Teach Policymakers.” April 20, 2009.

“The Making of a Conventional Wisdom.” April 13, 2009.

“Moving Beyond Vintage-Differentiated Regulation.” April 6, 2009.

“Using Markets to Make Fisheries Sustainable.” March 31, 2009.

“A Tale of Two Taxes.” March 19, 2009.

“Misconceptions About Water Pricing.” March 14, 2009.

“Green Jobs.” March 7, 2009.

“As Reservoirs Fall, Prices Should Rise.” March 3, 2009.

“The Myths of Market Prices and Efficiency.” March 3, 2009.

“The Myth of Simple Market Solutions.” February 23, 2009.

“The Myth of the Universal Market.” February 17, 2009.

“Opportunity for a Defining Moment.” February 6, 2009.

PROFESSIONAL EXPERIENCE:

A. J. Meyer Professor of Energy & Economic Development, John F. Kennedy School of Government, Harvard University, 2017- present (Albert Pratt Professor of Business and Government, 1998-2017; Professor of Public Policy, 1997-98; Associate Professor, 1992-1997; Assistant Professor, 1988 - 1992).

Chairman, Environment and Natural Resources Faculty Group, 1998 - present.

Director, Harvard Environmental Economics Program, 2000 - present.

Director of Graduate Studies for Doctoral Program in Public Policy and Doctoral Program in Political Economy and Government, Chairman of the Kennedy School Ph.D. Committee, and Chairman of the Graduate School of Arts and Sciences (GSAS) Standing Committee on Higher Degrees in Public Policy, 2006 - present.

Co-Chair, Harvard Business School-Kennedy School Joint Degree Programs, 2007 - present.

Director, Harvard Project on Climate Agreements, 2005 – present.

University Fellow, Resources for the Future, Washington, D.C., 1989 - present.

Research Associate, National Bureau of Economic Research, 2007 - present.

Co-Editor, *Review of Environmental Economics and Policy* (Oxford University Press), 2009 – present (Editor, 2006-2009).

Member, Board of Directors, Resources for the Future, Washington, D.C., 2003 – 2012, 2014 – present.

Member, Scientific Advisory Board, Fondazione Eni Enrico Mattei (FEEM), Milan, 2009 - 2013.

Editor, *Journal of Wine Economics*, and Vice President, American Association of Wine Economists, 2006 - present.

Member, Editorial Council, *Environmental Economics and Policy Studies*, 2010 - present.

Member, Editorial Board, *Climate Change Economics*, 2009 – present.

Member, Advisory Board, Strengthening the U.S. Energy Innovation System, MIT, Cambridge, Massachusetts, 2008-2010.

Chair, Environmental Economics Advisory Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1997-2002 (Member, 1992 - 2003).

Member, Executive Board, Science Advisory Board, U.S. Environmental Protection Agency, 1997-2002; 2004-2007.

Chairman, Executive Office of Environmental Affairs Scientific Advisory Board, Commonwealth of Massachusetts, 2005 - 2007.

Faculty Chair, Environment and Natural Resources Program, John F. Kennedy School of Government, Harvard University, 1997-2002.

Member, Board of Directors, Association of Environmental and Resource Economists, January 1996 - December 1998.

Member, Executive Committee, Harvard University Center for the Environment (formerly Harvard University Committee on the Environment), 1999-2004; Member, University Working Group on Environment, Harvard University, 1990 - 1992.

Member, Board of Directors, Robert and Renée Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University, 1997-present.

Member, the Board of Academic Advisors, AEI-Brookings Joint Center for Regulatory Studies, August 1998-present.

Member, Editorial Board, B.E. Journals of Economic Analysis & Policy, 2001-present.

Member, Editorial Board, *Land Economics*, 2001 - 2006.

Member, Board of Editors, *Resource and Energy Economics*, 1998 - 2005.

Member, Editorial Council, *The Journal of Environmental Economics and Management*, 1996 - 2004.

Contributing Editor, *Environment*, 1997 - 2007.

Member, Advisory Board, *Environmental Economics Abstracts*, 1996 - present.

Member, Editorial Board, *Economic Issues*, 1996 - present.

Member, Advisory Board, *Environmental Law and Policy Abstracts*, 1996 - present.

Member, Subcommittee on Energy, Clean Air, and Climate Change, Clean Air Act Advisory Committee, U.S. Environmental Protection Agency, 1997 - present.

Lead Author, Working Group III, Intergovernmental Panel on Climate Change (IPCC), United Nations Environment Program and World Meteorological Organization, 1993 - present.

Member, Reducing Risk Project Steering Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1996 - present.

Member, External Review Panel, Department of Agricultural and Resource Economics, University of California, Berkeley, October 1995.

Member, Workshop Committee, Association of Environmental and Resource Economists (AERE) 1996-1999 (chair in third year of appointment).

Member, Eco-Efficiency Task Force, President's Council on Sustainable Development, 1994 - 1995.

Member, Energy Modeling Forum Working Group on Energy Conservation (EMF 13), Stanford University, 1992 - 1994.

Member, Advisory Panel on Emissions Trading, Sierra Club, Washington, D.C., 1994 - 1995.

Affiliated Faculty Member, Harvard Center for Risk Analysis, Harvard School of Public Health, Boston, Massachusetts, 1991 - present.

Academic Advisor for Environmental Journalism Program, Foundation for American Communications, 1992 - 1998 (Lecturer, 1989 - present).

Director, Project 88 and Project 88/Round II, co-sponsored by U.S. Senators Timothy Wirth (D-Colorado) and John Heinz (R-Pennsylvania), 1988 - 1992.

Principal, Harvard-Japan Project on Energy and the Environment, 1992 - 1995.

Member, Governor's Task Force on Energy and Environmental Policy, Massachusetts, 1992 - 1994.

Consultant to foundations, private industry, non-governmental organizations, state & local governments, Federal government departments and agencies, and international bodies on environmental economics.

Referee, *The American Economic Review*, *The Quarterly Journal of Economics*, *The Economic Journal*, *The RAND Journal of Economics*, *The Review of Economics and Statistics*, *The Journal of Environmental Economics and Management*, *Land Economics*, *The Energy Journal*, *Energy and Resource Economics*, *Energy Policy*, *The Journal of Policy Analysis and Management*, *Economic Inquiry*, *Science*, *Policy Studies Journal*, *The Journal of the Air and Waste Management Association*, and Harvard University Press.

Member, Risk Reduction Committee, Science Advisory Board, U.S. Environmental Protection Agency, Washington, D.C., 1989 - 1990.

Member, Working Group on Human Interactions with Global Change, National Research Council, Washington, D.C., 1989 - 1990.

Staff Economist, Environmental Defense Fund, Berkeley, California, 1982 - 1983.

Consultant, Public Interest Economics Foundation, Inc., Berkeley, California, September 1980 - June 1982.

Economist, Giannini Foundation of Agricultural Economics, University of California, Berkeley, 1979 - 1981.

Research Specialist, Department of Agricultural Economics, Cornell University, 1977 - 1979.

Agricultural Representative, Peace Corps Recruitment, Champaign, Illinois, September 1975 - August 1976.

Peace Corps Volunteer, Ministry of Agriculture and Natural Resources, Sierra Leone, West Africa, 1969 - 1973.

AWARDS, HONORS, AND GRANTS:

Publication of Enduring Quality Award, Association of Environmental and Resource Economists, June 2017, for “The Induced Innovation Hypothesis and Energy-Saving Technological Change,” by Richard G. Newell, Adam B. Jaffe, and Robert N. Stavins, *Quarterly Journal of Economics*, Vol. 114, No. 3 (1999), pp. 941-975.

Edmund G. “Pat” Brown Award, California Council for Environmental and Economic Balance, 2016.

Fellow, Association of Environmental and Resource Economists, 2009.

Principal Investigator, grant from the Doris Duke Charitable Foundation, “The Harvard Project on International Climate Agreements,” July 2007 - June 2009 (\$750,000)

Principal Investigator, grant from the U.S. Environmental Protection Agency, “Regulating Pollution Through Information Disclosure: Facility Response to the Toxics Release Inventory,” July 2002 - June 2005 (\$395,459)

Principal Investigator, grant from the National Science Foundation, “Climate Change Response Strategies for Water Resources: Price and Non-Price Demand Management,” March 2001 - February 2003 (\$238,000)

Principal Investigator, grant from AVINA Foundation, “Land Use and Climate Change,” September 2000 - January 2003 (\$125,000)

Principal Investigator, grant from the U.S. Department of Energy, “The Effects of Government Policies on the Invention, Innovation, and Diffusion of Energy-Efficient Technologies,” October 1, 1998 - December 14, 2001 (\$519,000)

Principal Investigator, grant from the U.S. Department of Energy, “Land-Use Change and Carbon Sinks: Econometric Estimation of the Carbon Sequestration Supply Function,” December 15, 1998 - December 14, 2001 (\$200,000)

Principal Investigator, grant from the U.S. Department of Energy, “Energy-Efficiency Innovation and the Economic and Regulatory Environment,” September 1995 - November 1998 (\$461,000)

Principal Investigator, grant from the U.S. Environmental Protection Agency, “Estimating a CO2 Sequestration Supply Function,” June 1993 - August 1994 (\$130,000).

Principal Investigator, grant from the W. Alton Jones Foundation, “Environmental Policy Reform in the First 100 Days of the New Administration,” February 1993 - May 1993 (\$40,000).

Principal Investigator, grant from the Office of Research and Development, U.S. Environmental Protection Agency, “Evaluating the Relative Effectiveness of Economic Incentives and Direct Regulation for Environmental Protection: Impacts on the Diffusion of Technology,” September 1991 - August 1993 (\$186,000).

Principal Investigator, grant from the W. Alton Jones Foundation, “Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies,” November 1990 - August 1992 (\$75,000).

Principal Investigator, grant from the Pew Charitable Trusts, “Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies,” January 1991 - August 1992 (\$75,000).

Principal Investigator, grant from the Surdna Foundation, “Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies,” March 1991 - August 1992 (\$50,000).

Principal Investigator, grant from the U.S. Environmental Protection Agency, “Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies,” March 1991 - August 1992 (\$50,000).

Principal Investigator, grant from Carnegie Corporation of New York, “Economic Incentives for Environmental Protection: A Public Policy Sequel to Project 88,” June 1990 - September 1991 (\$97,600).

Principal Investigator, grant from Resources for the Future, “Wetland Losses and Willingness-to-Pay for Fishing Opportunities,” 1990-1991 (\$20,905).

Project Director, grant from the Richard King Mellon Foundation, Pittsburgh, Pennsylvania, "Harvard-Project 88 Conference," 1989 (\$35,000).

Project Director, grants from the Carnegie Corporation of New York, the Richard King Mellon Foundation, the Rockefeller Family and Associates, and the Keystone Center/Madison Associates, "Project 88 - Harnessing Market Forces to Protect the Environment: Initiatives for the New President," 1988-89 (\$50,000).

Principal Investigator, grant from the Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C., "Welfare Analysis of Alternative Uses of Forested Wetlands," 1987-88 (\$10,000).

Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1986-87 (\$15,000).

Mentorship Grant in Humanities and Social Sciences, Harvard University, Cambridge, Massachusetts, Fall 1986. With H. S. Houthakker (\$10,000).

Dissertation Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1985-86 (\$15,000).

Principal Investigator, grant from U.S. Department of the Interior, Washington, D.C., "Impact of Federal Programs on Wetlands," 1985-86 (\$100,000).

Outstanding Master's Thesis - 1979. National competition of the American Agricultural Economics Association, Champaign, Illinois, July 18, 1980.