

## **Joseph A. Tainter**

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**Education:** B.A., Anthropology, with honors, University of California at Santa Barbara, March, 1972.

M.A., Anthropology, Northwestern University, June, 1973.

Ph.D., Anthropology, Northwestern University, June, 1975.

### **Professional Positions**

Professor of Sustainability, Department of Environment and Society, College of Natural Resources, Utah State University, Logan, Utah, 2009– .

Guest Professor, Center for Studies of Science and Humanities, Beijing Normal University, Beijing, China, 2009.

Professor and Head, Department of Environment and Society, College of Natural Resources, Utah State University, Logan, Utah, 2007–2009.

Research Professor, Global Institute of Sustainability and School of Human Evolution and Social Change, Arizona State University, Tempe, Arizona, 2005–2007.

Project Leader, Cultural Heritage Research, Rocky Mountain Research Station, USDA Forest Service, Albuquerque, New Mexico, 1994 to 2005.

Archaeologist, USDA Forest Service, Albuquerque, New Mexico, 1978/80-1994.

Research Assistant Professor, Paleo-Indian Institute, Eastern New Mexico University, Portales, 1978-1979.

Assistant Professor of Anthropology, University of New Mexico, 1975-1978.

## Media Appearances

### Films

- 2008 *Blind Spot*, produced by Adolfo Doring.
- 2007 *The 11th Hour*, produced by Leonardo DiCaprio, Leila Conners Petersen, Brian Gerber, and Chuck Castleberry. Warner Independent Films.

### Television (major)

- 2010 *Collapse*. *National Geographic Channel*, broadcast nationally 18 September 2010.
- 2010 *After Armageddon*. *The History Channel*, broadcast nationally 5 January 2010.
- 2009 *Earth 2100*. American Broadcasting Corporation, News Division. Broadcast nationally 2 June 2009 (3.7 million viewers).

### Print (major)

- 2011 “Total Reboot,” by Bob Holmes. *New Scientist*, 26 March: 40-45.
- 2010 “It’s Complicated: Making Sense of Complexity,” by David Segal. *The New York Times*, April 30.
- 2009 “Crises of Complexity.” Interview by Kazys Varnelis. *Volume* 2009 #2, pp. 26-28.
- 2009 “De la Crise à l’Effondrement”, by Yves Sciama. *Les Cahiers de Science & Vie* 109 (Février-Mars): 22-28. (Issue topic: Les Civilisations: Sont-Elle Vouées à Disparaître?)
- 2008 “The End of Civilization” and “Are We Doomed,” by Debora MacKenzie. *New Scientist* April 5-11: 28-31 and 32-35. (Issue topic: The Collapse of Civilization: It’s More Precarious Than We Realized.)
- 2005 “Wovon Geht die Welt nun Unter?” by Thomas Häusler. *Facts*, No. 42, 20 October, pp. 64-67.

### Radio (major)

- 2010-11 Interviews in *The Ron Smith Show*, WBAL Radio, Baltimore, MD. 10 September 2010 and 8 February 2011.

2010 Interview in *What Now, with Ken Rose*, Kows Radio Occidental 107.3 FM. 28 June, 2010. (<http://www.pantedmonkey.org/>).

### Internet

2011 [http://www.youtube.com/results?suggested\\_categories=25%2C27%2C28%2C29&search\\_filter=0&search\\_query=%22joseph+tainter%22+site%3Ayoutube.com](http://www.youtube.com/results?suggested_categories=25%2C27%2C28%2C29&search_filter=0&search_query=%22joseph+tainter%22+site%3Ayoutube.com)  
(<http://tinyurl.com/3p53rpj>)

2010 The Collapse of Complex Business Models, by Clay Shirky.  
<http://www.shirky.com/weblog/2010/04/the-collapse-of-complex-business-models/>

2010 Interview in the *Financial Sense News Hour*, 8 September 2010.  
(<http://www.financialsense.com/financial-sense-newshour/in-depth/joseph-tainter-phd/the-collapse-of-complex-societies>).

2001 “Archaeology, History and Sustainability.” Audio presentation on *The Archaeology Channel*  
(<http://www.archaeologychannel.org/commentary/Tainter.html>).

Various other interviews with print, radio, and television journalists.

### **Selected Invited Presentations**

2011. Tainter, J. A. Complexity and Collapse. Keynote Address to the Office of the Secretary of Defense Highlands Forum XLIV, *Failure and Collapse in Complex Systems*, Santa Fe, 26-28 June.

2011. Tainter, J. A. The Deepwater Horizon Blowout: Proximate and Ultimate Causes. Plenary Address to the Third Annual Biophysical Economics Conference, State University of New York, Syracuse, School of Environmental Science and Forestry, 15-16 April 2011.

2011. Tainter, J. A. Sustainability Challenges, Past and Future. Presented at the John E. Sawyer Seminars on the Comparative Study of Cultures, *Energy Transitions and Society*, Boston University, 25 February.

2010. Tainter, J. A. Energy and Innovation: Contexts for Our Future. Presented at the Meeting “Hedge Fund Research Industry Summit: Outlook 2011,” Chicago, 17 November.

2010. Tainter, J. A. The Energy-Complexity Spiral. Presented at the 7th Biennial International Workshop, “Advances in Energy Studies: Can We Break the Addiction to Fossil Energy?”, Universitat Autònoma de Barcelona, 19-21 October.

2010. Tainter, J. A. Can Innovation Provide a Sustainable Lifestyle? Presented at the VIIIth International Media Forum on the Protection of Nature, "People Building Future: Limits and Values for a Sustainable Lifestyle," Associazione Culturale Greenaccord, Cuneo, Italy, 13-17 October.

2010. Tainter, J. A. Collapse and Sustainability: Lessons From History. Plenary address to the United States Regional Association of the International Association for Landscape Ecology, University of Georgia, 5-9 April.

2009. Tainter, J. A. Energy Transitions and Financial Crises, Past and Future. Presented at the Department of Archaeology and Ancient History, Uppsala University, Sweden, 3 November.

2009. Tainter, J. A. Biophysical Economics: Collapse and Sustainability. Plenary Address to the Second Annual Biophysical Economics Conference, State University of New York, Syracuse, School of Environmental Science and Forestry, 16 October.

2009. Tainter, J. A. Human Resource Use: Timing and Implications for Sustainability. Presented in the Symposium "Human Macroecology: Understanding Human-Environment Interactions Across Scales," at the 94th Annual Meeting of the Ecological Society of America, Albuquerque, 2-7 August.

2009. Tainter, J. A. Sustainability: Values, Resources, and Problem Solving. Six lectures delivered in the Institute of the History of the Environment and the Institute for the History and Philosophy of Science, Beijing Normal University, Beijing, China.

2009. Tainter, J. A. and T. F. H Allen. Energy Gain and Organization. Presented in the Plenary Symposium "Archaeology Beyond Archaeology" at the 74th Annual Meeting of the Society for American Archaeology, Atlanta, 22 April.

2009 The Logic of Collapse: Do Ethics Cause Catastrophes? Presented at the Conference "The Ethics of Catastrophe," Centre for Ethics, University of Toronto, 27-29 March.

2008. Tainter, J. A. Sustainability and Sustainable Development. Keynote Address to the VIth International Media Forum on the Protection of Nature, "Environment and Development for Third World Countries," Associazione Culturale Greenaccord, Viterbo, Italy, 26 November.

2008. Tainter, J. A. Energy: Thinking Long Term. Presented to Baraboo Growth LLC, Milwaukee, 10 September.

2008. Tainter, J. A. The Fundamental Elements of Being Sustainable. Presented at the Universidad Autónoma de Barcelona, 3 July.

2008. Tainter, J. A. The Jevons Paradox in Everyday Life. Presented at the 6th Biennial International Workshop, "Advances in Energy Studies," Graz University of Technology, 29 June to 2 July.

2008. Tainter, J. A. Energy Gain, Organization, and Sustainability. Presented at the Sustainable Energy Symposium, University of Rochester, 4-5 April.
2008. Tainter, J. A. What Does It Mean To Be Sustainable? Presented at the Torino Academy of Sciences, 12 March.
2008. Tainter, J. A. Complexity, Collapse, and Sustainability in Ancient and Modern Societies. Presented at the Department of Physics, University of Torino, 11 March.
2007. Tainter, J. A. Systems Thinking and Irreducible Uncertainty. Presented at the 28th Annual Meeting of the Society for Environmental Toxicology and Chemistry, Milwaukee, 11-15 November.
2007. Tainter, J. A. Climate, Energy, and Sustainability: A Fundamental Dilemma. Presented at the Interdisciplinary Round Table on Climate Change and Energy Strategies, Wasan Island, Lake Rosseau, Ontario, Canada, 14-15 September.
2007. Tainter, J. A. Sustaining Dryland Forests: Fundamental Questions. Presented at the Conference “Afforestation and Sustainable Forests as a Means to Combat Desertification,” Jerusalem, Israel, 16-19 April.
2007. Tainter, J. A. Sustainability, Complexity, and Problem Solving: Lessons From the Roman Empire. Presented at the Workshop “The Future of Earth and Humankind—A View From Asia,” Ōgata-mura, Akita Prefecture, Japan, 23-28 March.
2006. Tainter, J. A. Energy, Resources, and the Semantics of Sustainability. Presented at the Fifth Biennial Workshop, “Advances in Energy Studies,” Porto Venere, Italy, 12-16 September.
2006. Tainter, J. A. Energy Gain and Future Organization. Presented at the Sustainable Energy Forum 2006, “Peak Oil and the Environment,” Washington, DC, 7-9 May.
2005. Tainter, J. A. and C. R. Crumley. Climate, Complexity, and Problem Solving in the Roman Empire. Prepared for the 96th Dahlem Workshop *Integrated History and the Future of People on Earth (IHOPE)*, Freie Universität, Berlin, 12-17 June.
2005. Tainter, J. A. and T. F. H. Allen. Energy Gain and Complexity: Implications for Human Ecology in the Amazon Basin. Presented at the Santa Fe Institute Workshop “Anthropogenic Landscapes: Social and Environmental Complexity in Lowland Latin America,” Florianópolis, Santa Catarina, Brazil, 24-28 May.
2005. Tainter, J. A. Energy, Problem Solving, and Sustainability in the Roman Empire. Presented at the 2005 Norris and Margery Bendetson EPIIC International Symposium “Oil and Water,” Tufts University, Medford, Massachusetts, 24 February.

2005. Tainter, J. A. Ecological vs. Social Complexity: An Anthropological Perspective on a Science of Sustainability. Presented in the Anthropology Colloquium Series and the International Institute for Sustainability Wrigley Lecture Series on Sustainability, Arizona State University, Tempe, 28 January.
2004. Tainter, J. A. Why Complexity Grows. Presented at the Technology Transfer Institute/Vanguard Conference “The Challenge of Complexity,” Los Angeles, 28 September.
2004. Tainter, J. A. Sustainability and Complex Problem Solving. Presented at the 22nd Annual Meeting of the Balaton Group, Zirc, Hungary, 11 September.
2004. Tainter, J. A. Scale, Information, and Power in Ages of Globalization. Presented in the Session “Complexity, Uncertainty and Managing for Sustainability—a Tribute to the Life and Work of James Kay,” at the Eighth Biennial Scientific Conference of the International Society for Ecological Economics, Montréal, 12 July.
2004. Tainter, J. A. Complexity and Sustainability in Human Systems. Presented at the Gordon Research Conference *The Metabolic Basis of Ecology*, Bates College, Lewiston, Maine, 7 July.
2004. Tainter, J. A. Co-Evolution of Complexity and Problem Solving. Presented at the VIth Annual Workshop “Co-Evolution of Behaviors and Institutions” at the Santa Fe Institute, Santa Fe, 24 January.
2003. Tainter, J. A. The Development of Social Complexity: Models of Collapse, Resiliency, and Sustainability. Presented in “The Stockholm Seminars: Frontiers in Sustainability Science and Policy,” at The Royal Swedish Academy of Sciences, Stockholm, 24 September.
2003. Tainter, J. A. Social and Ecological Systems in Convergent Evolution: Local Impacts of World Systems. Presented at the Conference “World System History and Global Environmental Change,” Lund University, Lund, Sweden, 20 September.
2003. Tainter, J. A. Complexity and Problem Solving, Part I: Social Complexity. Presented in the Symposium “Ecological Complexity and Sustainability” at the 88th Annual Meeting of the Ecological Society of America, Savannah.
2002. Tainter, J. A. Historical Studies in Collapse, Resiliency, and Sustainability. Presented at the Institute of Geography, University of Paris I (Panthéon-Sorbonne), Paris, France.
2002. Tainter, J. A. Material Culture Distributions in Time and Space: Shifting Expressions of Cultural Identity in the Prehistoric Southwestern United States. Presented at the School of Archaeology, University of Paris I (Panthéon-Sorbonne), Paris, France.

2002. Tainter, J. A. The Development and Collapse of Political Complexity at Cahokia in the American Midwest. Presented at the School of Archaeology, University of Paris I (Panthéon-Sorbonne), Paris, France.

2002. Tainter, J. A. Societal Metabolism in the Roman Empire. Presented at the Third Biennial Workshop “Advances in Energy Studies: Reconsidering the Importance of Energy,” Porto Venere, Italy.

2002. Tainter, J. A. Ecological Integrity and Problem Solving in Natural Resource Management. Presented at the Third Biennial Workshop “Advances in Energy Studies: Reconsidering the Importance of Energy,” Porto Venere, Italy.

2001. Tainter, J. A. Archaeology, History, and Sustainable Problem Solving. Presented at the 167th Annual Meeting of the American Association for the Advancement of Science, San Francisco.

1998. Tainter, J. A. Comparative Responses to Climate Change: Comments on the Symposium “The Ancient Mande Landscape: Climate Change and Human Response.” Presented at the Fourth International Conference on Mande Studies, Serrekunda, The Gambia.

1998. Tainter, J. A. Introduction to the Plenary Session “Archaeology and Contemporary Environmental Change.” Presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle.

1998. Tainter, J. A. Cahokia: the Cost and Meaning of Complexity. Presented at the conference “Forgotten Cities” at the Asia Society and New York University, New York.

1997. Tainter, J. A. Critical Analysis and Cultural Landscapes in Heritage Management. Presented at the Annual Conference of the Theoretical Archaeology Group, Bournemouth University, Bournemouth, England.

1996. Tainter, J. A. Cultural Conflict and Sustainable Development: Managing Subsistence Hunting in Alaska. Presented at the 7th Annual Conference of the International Boreal Forest Research Association, St. Petersburg, Russia.

1994. Tainter, J. A. Are Complex Societies Sustainable? Perceiving Fundamental Issues. Plenary Address to the Third International Conference of the International Society for Ecological Economics, San José, Costa Rica.

1994. Tainter, J. A. Explaining Why Complex Societies Collapse. Presented in the Director’s Lecture Series, Getty Research Center, Santa Monica.

1994. Tainter, J. A. Forces of Reaction and Changes of Scale in the World System of States. Presented at the conference “The State Under Siege: Political Disintegration in the Post-Cold War Era,” New York Academy of Sciences, New York.

1991. Tainter, J. A. Why Civilizations Collapse. Presented to the Systems Dynamics Group, MITRE Corporation, McLean, Virginia.

1991. Tainter, J. A. Evolutionary Consequences of War. Presented at the conference “Effects of War on Society,” Center for Interdisciplinary Research on Social Stress, San Marino.

### **Publications in Preparation**

n.d. Tainter, J. A. Energy, Complexity, and Sustainability in the 21st Century. In *Energy 2100*, edited by Adil Najam and Cutler Cleveland.

n.d. Tainter, J. A. Theories of the Collapse of States. In *The Oxford Companion to Archaeology*, second edition, edited by Neil Asher Silberman. Oxford University Press, Oxford.

### **Books**

2011 Tainter, J. A. and T. W. Patzek. *Drilling Down: The Deepwater Horizon Debacle and Our Energy Dilemma*. Copernicus Books, New York (in press).

2010 Tainter, J. A. *FuZha SheHui de BengKui*. Cambridge University Press, Cambridge, and Hainan Publishing House, Haikou, China.

2009 Tainter, J. A. *Kolapsy Složitých Společností*. Nakladatelství Dokořán, Prague.

2007 Tainter, J. A. *Kolaps Kompleksnih Društava*. Naklada Jesenski i Turk, Zagreb.

2003 Allen, T. F. H., J. A. Tainter, and T. W. Hoekstra. *Supply-Side Sustainability*. Columbia University Press, New York.

2000 McIntosh, R. J., J. A. Tainter, and S. K. McIntosh (eds.). *The Way the Wind Blows: Climate, History, and Human Action*. Columbia University Press, New York.

1999 Tainter, J. A. *Moon Myung ay Bung Geh*. Daewon Publishing Company, Seoul.

1996 Tainter, J. A. and B. B. Tainter (eds). *Evolving Complexity and Environmental Risk in the Prehistoric Southwest*. Santa Fe Institute, *Studies in the Sciences of Complexity*, Proceedings Volume XXIV. Addison-Wesley, Reading.

1988 Tainter, J. A. *The Collapse of Complex Societies*. Cambridge University Press, Cambridge.

### Monographs and Other Volumes

- 2004 McIntosh, R. J. and J. A. Tainter (eds.). *Climates of the Mande. Mande Studies 6*: 1-82.
- 1997 Tainter, J. A. (ed.) *Archeology of the Farmington Sector of the Elena Gallegos Project*. USDA Forest Service, Southwestern Region, *Heritage Resources Management Report 16*.
- 1995 Finch, D. M. and J. A. Tainter (eds.). *Ecology, Diversity, and Sustainability of the Middle Rio Grande Basin*. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, *General Technical Report RM-268*.
- 1995 Tainter, J. A. (ed.). *Archeology of the Albuquerque Sector of the Elena Gallegos Project*. USDA Forest Service, Southwestern Region, *Heritage Resources Management Report 14*.
- 1988 Tainter, J. A. and R. H. Hamre (co-editors). *Tools to Manage the Past: Research Priorities for Cultural Resources Management in the Southwest*. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, *General Technical Report RM-164*. iii + 214 pp.
- 1987 Tainter, J. A. and F. Levine. *Cultural Resources Overview, Central New Mexico*. USDA Forest Service, Southwestern Regional Office and USDI Bureau of Land Management, New Mexico State Office, Albuquerque and Santa Fe.
- 1984 Tainter, J. A. (ed.). *Predictive Modeling and the McKinley Mine Dilemma. American Archaeology 4*: 82-113.
- 1980 Tainter, J. A. and David A. Gillio. *Cultural Resources Overview, Mt. Taylor Area, New Mexico*. USDA Forest Service, Southwestern Regional Office and USDI Bureau of Land Management, New Mexico State Office, Albuquerque and Santa Fe.
- 1971 Tainter, J. A. *Salvage Excavations at the Fowler Site: Some Aspects of the Social Organization of the Northern Chumash. San Luis Obispo County Archaeological Society, Occasional Papers No. 3*.

### Articles

- 2011 Lobo, J. J. A. Tainter, and D. Strumsky. Productivity of Invention. In *Leadership in Science and Technology: A Reference Handbook*, edited by William Sims Bainbridge. Sage Publications, Thousand Oaks, CA (in press).
- 2011 Tainter, J. A. Energy, Complexity, and Sustainability: A Historical Perspective. *Environmental Innovation and Societal Transitions 1*: 89-95. **(Invited contribution to the inaugural issue.)**

- 2011 Tainter, J. A. Resources and Cultural Complexity: Implications for Sustainability. *Critical Reviews in Plant Sciences* 30: 24-34.
- 2010 Strumsky, D., J. Lobo, and J. A. Tainter. Complexity and the Productivity of Innovation. *Systems Research and Behavioral Science* 27: 496-509.
- 2010 Allen, T. F. H., J. A. Tainter, J. Flynn, R. Steller, E. Blenner, M. Pease, and K. Nielsen. Integrating Economic Gain in Biosocial Systems. *Systems Research and Behavioral Science* 27: 537-552.
- 2008 Tainter, J. A. Collapse, Sustainability, and the Environment: How Authors Choose to Fail or Succeed. *Reviews in Anthropology* 37: 342-371.
- 2008 Tainter, J. A. Foreword. In *The Jevons Paradox and the Myth of Resource Efficiency Improvements*, by John M. Polimeni, Kozo Mayumi, Mario Giampietro, and Blake Alcott, pp. ix-xvi. Earthscan, London.
- 2007 Makaske, B., E. De Vries, J. A. Tainter, and R. J. McIntosh. Aeolian and Fluvio-lacustrine Landforms and Prehistoric Human Occupation on a Tectonically Influenced Floodplain Margin, the Méma, Central Mali. *Netherlands Journal of Geosciences* 86: 241-256.
- 2007 Tainter, J. A. Scale and Dependency in World Systems: Local Societies in Convergent Evolution. In *Rethinking Environmental History: World System History and Global Environmental Change*, edited by Alf Hornborg, J. R. McNeill, and Joan Martinez-Alier, pp. 361-377. AltaMira Press, Lanham MD.
- 2007 Tainter, J. A. and C. L. Crumley. Climate, Complexity, and Problem Solving in the Roman Empire. In *Sustainability or Collapse? An Integrated History and Future of People on Earth*, edited by Robert Costanza, Lisa J. Graumlich, and Will Steffen, pp. 61-75. Dahlem Workshop Report 96. The MIT Press, Cambridge.
- 2007 Redman, C. L., C. L. Crumley, F. A. Hassan, F. Hole, J. Morais, F. Riedel, V. L. Scarborough, J. A. Tainter, P. Turchin, and Y. Yasuda. Group Report: Millennial Perspectives on the Dynamic Interaction of Climate, People, and Resources. In *Sustainability or Collapse? An Integrated History and Future of People on Earth*, edited by Robert Costanza, Lisa J. Graumlich, and Will Steffen, pp. 115-148. Dahlem Workshop Report 96. The MIT Press, Cambridge.
- 2006 Tainter, J. A. and B. Bagley. Identité et Culture Matérielle dans le Sud-Ouest des États-Unis. *Les Nouvelles de l'Archéologie* 103(1): 5-10.
- 2006 Tainter, J. A. Archaeology of Overshoot and Collapse. *Annual Review of Anthropology* 35: 59-74.

- 2006 Tainter, J. A. Social Complexity and Sustainability. *Ecological Complexity* 3: 91-103.
- 2006 Tainter, J. A. Rational Sustainability. In *Global Survival: The Challenge and Its Implications for Thinking and Action*, edited by Ervin Laszlo and Peter Seidel, pp. 123-138. SelectBooks, New York.
- 2006 Tainter, J. A., T. F. H. Allen, and T. W. Hoekstra. Energy Transformations and Post-Normal Science. *Energy* 31: 44-58.
- 2006 Tainter, J. A. Globalization Then and Now: Increasing Scale Reduces Local Sustainability. In *Monitoring Science and Technology Symposium: Unifying Knowledge for Sustainability in the Western Hemisphere*, edited by Celedonio Aguirre-Bravo, Patrick J. Pellicane, Denver P. Burns, and Sidney Draggan, pp. 565-572. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, *Proceedings* RMRS-P-42CD.
- 2005 Tainter, J. A. Sociopolitical Collapse. In *Dictionary of Energy*, edited by Cutler J. Cleveland and Christopher Morris, p. 401. Elsevier, Amsterdam.
- 2005 Tainter, J. A. and R. J. McIntosh. Introduction: the Méma Project, 1998-2000. In *Geomorphology and Human Palaeoecology of the Méma, Mali*, by E. De Vries, B. Makaske, J. A. Tainter, and R. J. McIntosh, pp. 15-16. *Alterra-report* 1244. Wageningen University and Research Centre, Wageningen.
- 2005 Tainter, J. A. Perspectives for Understanding the Abandonment of the Méma. In *Geomorphology and Human Palaeoecology of the Méma, Mali*, by E. De Vries, B. Makaske, J. A. Tainter, and R. J. McIntosh, pp. 85-94. *Alterra-report* 1244. Wageningen University and Research Centre, Wageningen.
- 2005 Tainter, J. A. 'Dark Ages' in Archaeology/Systems Collapse. In *Archaeology: The Key Concepts*, edited by Colin Renfrew and Paul Bahn, pp. 54-58. Routledge, London.
- 2005 Tainter, J. A. and B. Bagley. Shaping and Suppressing the Archaeological Record: Significance in American Cultural Resource Management. In *Heritage of Value, Archaeology of Renown: Reshaping Archaeological Assessment and Significance*, edited by Clay Mathers, Timothy Darville, and Barbara J. Little, pp. 58-73. University Press of Florida, Gainesville.
2004. Tainter, J. A. Comparative Responses to Climate Change. *Mande Studies* 6: 77-82.
- 2004 McIntosh, R. J. and J. A. Tainter. Paleoclimates and the Mande. *Mande Studies* 6: 1-10.
- 2004 Tainter, J. A. Energy and Sociopolitical Collapse. In *Encyclopedia of Energy*, Volume 5, edited by Cutler J. Cleveland, pp. 529-543. Elsevier, San Diego.

- 2004 Tainter, J. A. Persistent Dilemmas in American Cultural Resource Management. In *A Companion to Archaeology*, edited by John Bintliff, pp. 435-453. Blackwell Publishing, Malden, MA.
- 2003 Tainter, J. A. Societal Metabolism in the Roman Empire. In *Advances in Energy Studies, 3rd Biennial International Workshop: Reconsidering the Importance of Energy*, edited by Sergio Ulgiati, Mark T. Brown, Mario Giampietro, Robert A. Herendeen, and Kozo Mayumi, pp. 125-132. SGEEditoriali, Padua, Italy.
- 2003 Tainter, J. A. Ecological Integrity and Problem Solving in Natural Resource Management. In *Advances in Energy Studies, 3rd Biennial International Workshop: Reconsidering the Importance of Energy*, edited by Sergio Ulgiati, Mark T. Brown, Mario Giampietro, Robert A. Herendeen, and Kozo Mayumi, pp. 299-304. SGEEditoriali, Padua, Italy.
- 2003 Tainter, J. A. A Framework for Sustainability. *World Futures* 59: 211-223.
- 2003 Tainter, J. A., T. F. H. Allen, A. Little, and T. W. Hoekstra. Resource Transitions and Energy Gain: Contexts of Organization. *Conservation Ecology* 7(3): 4. [online] <http://www.consecol.org/vol7/iss3/art4>.
- 2003 Tainter, J. A. Forces of Reaction and Changes of Scale in the World System of States. In *The State, Identity and Violence: Political Disintegration in the Post-Cold War World*, edited by R. Brian Ferguson, pp. 68-82. Routledge, London.
- 2002 Tainter, J. A. A Framework for Archaeology and Sustainability. In *Encyclopedia of Life Support Systems*. EOLSS Publishers, Oxford. [online] <http://www.eolss.net>.
- 2002 Tainter, J. A. Foundations and Context of Contemporary Conflict. In *On the Edge of Scarcity: Environment, Resources, Population, Sustainability, and Conflict*, edited by Michael N. Dobkowski and Isidor Walliman, pp. 109-120. Syracuse University Press, Syracuse.
- 2001 Allen, T. F. H., J. A. Tainter, and T. W. Hoekstra. Complexity, Energy Transformations and Post-Normal Science. In *Advances in Energy Studies, Second International Workshop: Exploring Supplies, Constraints, and Strategies*, edited by Sergio Ulgiati, Mark T. Brown, Mario Giampietro, Robert A. Herendeen, and Kozo Mayumi, pp. 293-304. SGEEditoriali, Padua, Italy.
- 2001 Allen, T. F. H., J. A. Tainter, J. C. Pires, and T. W. Hoekstra. Dragnet Ecology—"Just the Facts, Ma'am": The Privilege of Science in a Postmodern World. *BioScience* 51: 475-485.

- 2001 Tainter, J. A. Complexity, Collapse, and Sustainable Problem Solving. In *Our Fragile World: Challenges and Opportunities for Sustainable Development*, edited by M. K. Tolba, pp. 1803-1826. EOLSS Publishers, Oxford.
- 2001 Tainter, J. A. Sustainable Rural Communities: General Principles and North American Indicators. In *People Managing Forests: The Links Between Human Well-Being and Sustainability*, edited by Carol J. Pierce Colfer and Yvonne Byron., pp. 347-361. Resources for the Future Press, Washington DC, and Center for International Forestry Research, Bogor, Indonesia.
- 2000 Tainter, J. A., R. J. McIntosh, and S. K. McIntosh. Climate, History, and Human Action. *Earth Affairs* (November 2000) ([www.earthscape.org](http://www.earthscape.org)).
- 2000 Hoekstra, T. W., T. F. H. Allen, J. Kay, and J. A. Tainter. Criteria and Indicators for Ecological and Social System Sustainability With System Management Objectives. In *North American Test of Criteria and Indicators of Sustainable Forestry*, by Stephen Woodley, Greg Alward, Leonel Iglesias Gutierrez, Thomas Hoekstra, Brad Holt, Ladd Livingston, Judy Loo, Andrew Skibicki, Clinton Williams, and Pamela Wright, pp. 123-131. USDA Forest Service, Inventory and Monitoring Institute, *Report 3*.
- 2000 Tainter, J. A. Problem Solving: Complexity, History, Sustainability. *Population and Environment* 22: 3-41.
- 2000 McIntosh, R. J., J. A. Tainter, and S. K. McIntosh. Climate, History, and Human Action. In *The Way the Wind Blows: Climate, History, and Human Action*, edited by Roderick J. McIntosh, Joseph A. Tainter, and Susan Keech McIntosh, pp. 1-42. Columbia University Press, New York.
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