

Joseph A. Tainter

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Education:

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

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

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

Professional Positions

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

Guest Professor, Alpen-Adria University and Vienna University of Business and Economics, Vienna, Austria, 2014.

Faculty Associate, Ecology Center, Utah State University, Logan, Utah, 2012– .

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.

Major Media Appearances

Internet Movie Database listings:

<https://www.imdb.com/name/nm2816643>

<https://www.imdb.com/name/nm2816643/externalsites>

Films

2018 *Living in the Future's Past*. Directed by Susan Kucera. Produced and narrated by Jeff Bridges. Vision Films. Rangeland Productions.

2015 *Breath of Life*. Directed by Susan Kucera.

2013 *Fall and Winter*. Directed by Matt Anderson.

2013 *Critical Mass*. Directed by Mike Freedman. A Day 600/Mike Freedman Film.

2008 *Blind Spot*. Produced by Adolfo Doring.

2007 *The 11th Hour*. Produced by Leonardo DiCaprio, Leila Connors Petersen, Brian Gerber, and Chuck Castleberry. Warner Independent Films.

Television (major)

2012 *American Collapse: Fear and Hope at the End of an Era*, by Herbert Krill. Broadcast 16 December 2012 on 3sat Television, Mainz, Germany.

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)

2020 “How Do You Know When Society is About to Fall Apart?” by Ben Ehrenreich. *The New York Times Magazine*, November 4.
<https://www.nytimes.com/2020/11/04/magazine/societal-collapse.html>

2016 “The Lesson of Trump and Brexit: A Society Too Complex For its People Risks Everything,” by John Harris. *The Guardian*, December 29.

https://www.theguardian.com/commentisfree/2016/dec/29/trump-brexit-society-complex-people-populists?CMP=share_btn_tw

- 2016 “Quand L’Expansion Expire.” Interview in *Le Progrès M’a Tuer*, pp. 27-34. Le Pas de Côté and Léchappée, Vierzon and Paris.
- 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

- 2018 “Scientists Want To Put A DNA Encyclopedia Of Human Civilization On The Moon,” by Dan Vergano. *Buzzfeed News*, September 29.
<https://www.buzzfeednews.com/article/danvergano/dna-encyclopedia-moon>
- 2017 “How Western Civilization Could Collapse”, by Rachel Nuwer. BBC Future, 18 April.
<http://www.bbc.com/future/story/20170418-how-western-civilisation-could-collapse>
(<http://tinyurl.com/lwa99p5>)
- 2011 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.

Invited International Presentations

Eighty-four invited presentations in 24 countries outside the United States. In some countries several presentations have been made. Countries: Austria, Belgium, Brazil, Canada, China, Costa Rica, England, France, Gambia, Germany, Hungary, Israel, Italy, Japan, Mexico, Netherlands, Portugal, Russia, San Marino, Singapore, Spain, Sweden. Switzerland, Venezuela.

Books

- 2019 Tainter, J. A. and T. W. Patzek. *Trivellare: L'incidente petrolifero nel Golfo del Messico e il nostro dilemma energetico*. Aracne editrice, Canterano.
- 2013 Tainter, J. A. *L'Effondrement des Sociétés Complexes*. Le Retour aux Sources, La Fenderie, Aube.
- 2012 Tainter, J. A. and T. W. Patzek. *Drilling Down: The Gulf Oil Debacle and Our Energy Dilemma*. Copernicus Books, New York.
- 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 Komplexnih 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

- 2020 Taylor, T. G. and J. A. Tainter. Strong Sustainability, Weak Sustainability, and the Challenge of Innovation. In *Paradigms, Models, Scenarios and Practices for Strong Sustainability*, compiled by Arnaud Diemer, Eduard Nedelciu, Marie Schellens, Manuel E. Morales, and Maartje Oostdijk, pp. 17-28. Editions Oeconomia, Clermont-Ferrand, France.
- 2019 Tainter, J. A. Cahokia: Urbanization, Metabolism, and Collapse. *Frontiers in Sustainable Cities* 1(6). doi: 10.3389/frsc.2019.00006 **(Invited contribution to the inaugural issue.)**
- 2019 Tainter, J. A. and T. G. Taylor. Energy, transport, and consumption in the Industrial Revolution. *Behavioral and Brain Sciences* 42, E209: 39-40.
doi:10.1017/S0140525X19000153
- 2019 Tainter, J. A. Scale and Metabolism in Ancient Cities. In *Understanding Urban Ecology: An Interdisciplinary Systems Approach*, edited by Myrna H. P. Hall and Stephen B. Balogh, pp. 85-99. Springer Nature Switzerland, Cham.
- 2019 Tainter, J. A. and T. F. H. Allen. Energy Gain and the Evolution of Organization. In *The Oxford Handbook of Historical Ecology and Applied Archaeology*, edited by Christian Isendahl and Daryl Stump, pp. 558-577. Oxford University Press, Oxford.
- 2019 Arnold, M, J. A. Tainter, and D. Strumsky. Productivity of Innovation in Biofuel Technologies. *Energy Policy* 124: 54-62. **This paper was featured in *Advances in Engineering* under the title “Is There a Future to Biofuel Innovation?” (<https://advanceseng.com/future-biofuel-innovation/>).**
- 2018 Tainter, J. A., V. L. Scarborough, and T. F. H. Allen. Resource Gain and Complexity: Water Past and Future. In *Water and Society From Ancient Times to the Present: Resilience, Decline, and Revival*, edited by Federica Sulas and Innocent Pikirayi, pp. 328-347. Routledge, London.
- 2018 Allen, T. F. H., P. Austin, M. Giampietro, Z. Kovacic, E. Ramly, and J. Tainter. Mapping Degrees of Complexity, Complicatedness, and Emergent Complexity. *Ecological Complexity* 35: 39-44.
- 2018 Tainter, J. A. Modelling the Mysterious Maya. *Nature Sustainability* 1: 79-80.

- 2018 Tainter, J. A., D. Strumsky, T. G. Taylor, M. Arnold, and J. Lobo. Depletion vs. Innovation: The Fundamental Question of Sustainability. In *Physical Limits to Economic Growth: Perspectives of Economic, Social, and Complexity Science*, edited by Roberto Burlando and Angelo Tartaglia, pp. 65-93. Routledge, London.
- 2018 Tainter, J. A. Understanding Sustainability Through History: Resources and Complexity. In *Routledge Handbook of the History of Sustainability*, edited by Jeremy Caradonna, pp. 40-56. Routledge, London.
- 2017 Casazza, M., J. A. Tainter, M. Lega, S. Viglia, G. Liu, and S. Ulgiati. Energy Features of Human Socio-Ecological Systems Relevant to the Future of Civilization. In *Energy Futures, Environment and Well-Being: Proceedings of the 10th Biennial International Workshop Advances in Energy Studies*, edited by Sergio Ulgiati and Laura Vanoli, pp. 68-75. Parthenope University of Naples, Naples.
- 2017 Allen, T. F. H., J. A. Tainter, D. Shaw, M. Giampietro, and Z. Kovacic. Radical Transitions From Fossil Fuel to Renewables: a Change of Posture. In *Complex Systems and Social Practices in Energy Transitions*, edited by Nicola Labanca, pp. 221-235. Springer International, Cham, Switzerland.
- 2016 Tainter, J. A. Agriculture and the Energy-Complexity Spiral. *Behavioral and Brain Sciences*. Online: doi:10.1017/S0140525X1500059X, e92.
- 2016 Taylor, T. G. and J. A. Tainter. The Nexus of Population, Energy, Innovation, and Complexity. *American Journal of Economics and Sociology* 75: 1005-1043.
- 2016 Tainter, J. A. Why Collapse is So Difficult to Understand. In *Beyond Collapse: Archaeological Perspectives on Resilience, Revitalization, and Transformation in Complex Societies*, edited by Ronald K. Faulseit, pp. 27-39. Center for Archaeological Investigations, Southern Illinois University Carbondale, *Occasional Paper* 42. Southern Illinois University Press, Carbondale.
- 2015 Tainter, J. A. Our Energy Dilemma (or will fish discover water?) In *More!*, edited by Marianne Thieme. E-Book Animal Politics Foundation, Amsterdam and Uitgeverij Jan van Arkel, Utrecht. In Arabic, Dutch, English, French, and German.
- 2015 Tainter, J. A., T. G. Taylor, R. G. Brain, and J. Lobo. Sustainability. In *Emerging Trends in the Social and Behavioral Sciences*, edited by Robert Scott and Stephan Kosslyn. John Wiley and Sons. [Online: wileyonlinelibrary/ref/emergingtrends]
- 2014 Tainter, J. May 7. In *Global Chorus: 365 Voices on the Future of the Planet*, edited by Todd E. MacLean, p. 145. Rocky Mountain Books, Victoria, British Columbia.

- 2014 Tainter, J. A. Collapse and Sustainability: Rome, the Maya, and the Modern World. In *The Resilience and Vulnerability of Ancient Landscapes: Transforming Maya Archaeology Through IHOPE*, edited by Arlen F. Chase and Vernon L. Scarborough, pp. 201-214. *Archeological Papers of the American Anthropological Association* 24.
- 2014 Chase, A. F., L. J. Lucero, V. L. Scarborough, D. Z. Chase, R. Cobos, N. P. Dunning, S. L. Fedick, V. Fialko, J. D. Gunn, M. Hegmon, G. Iannone, D. L. Lentz, R. Liendo, K. Prufer, J. A. Sabloff, J. A. Tainter, F. Valdez, and S. E. van der Leeuw. Tropical Landscapes and the Ancient Maya: Diversity in Time and Space. In *The Resilience and Vulnerability of Ancient Landscapes: Transforming Maya Archaeology Through IHOPE*, edited by Arlen F. Chase and Vernon L. Scarborough, pp. 11-29. *Archeological Papers of the American Anthropological Association* 24.
- 2014 Tainter J. A. and Temis G. Taylor. Complexity, Problem-Solving, Sustainability and Resilience. *Building Research & Information* 42: 168-181.
- 2013 Tainter, J. A. Energy and Existential Sustainability: The Role of Reserve Capacity. *Journal of Environmental Accounting and Management* 1: 213-228.
- 2013 Tainter, J. A. Ons Energiedilemma, Oftewel: Wat Weet Een Vis Van Water? In *Méér!*, edited by Marianne Thieme, pp. 57-68. Nicolaas G. Pierson Foundation, Uitgeverij Jan van Arkel, Utrecht.
- 2012 Tainter, J. A. Theories of the Collapse of States. In *The Oxford Companion to Archaeology*, second edition, edited by Neil Asher Silberman, Alexander A. Bauer, Margarita Díaz-Andreu, Cornelius Holtorf, and Emma Waterton, pp. 221-224. Oxford University Press, Oxford.
- 2012 Tainter, J. A. Regenerative Design in Science and Society. *Building Research & Information* 40: 369-372.
- 2012 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, pp. 289-297. Sage Publications, Los Angeles.
- 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.
- 2011 D. MacGregor, J. A. Tainter, and J. Godfrey. Cultural Influences on Intertemporal

- Reasoning: An Annotated Bibliography. *SSRN Electronic Journal*. Online: <http://dx.doi.org/10.2139/ssrn.1966736>
- 2011 Tainter, J. A. and D. MacGregor. Pashtun Social Structure: Cultural Perceptions and Segmentary Lineage Organization—Understanding and Working Within Pashtun Society. *SSRN Electronic Journal*. Online: <https://dx.doi.org/10.2139/ssrn.1934940>
- 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. Foreward. 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 Nouvelle 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. Perspective on Diamond's *Collapse: How Societies Choose to Fail or Succeed*. *Current Anthropology* 46: S97-S99.
- 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.earthscope.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.
- 2000 Tainter, J. A. Global Change, History, and Sustainability. In *The Way the Wind Blows: Climate, History, and Human Action*, edited by Roderick J. McIntosh, Joseph A. Tainter, and Susan Keech McIntosh, pp. 331-356. Columbia University Press, New York.
- 1999 Sullivan, A. P. III, J. A. Tainter, and D. L. Hardesty. Historical Science, Heritage

- Resources, and Ecosystem Management. In *Ecological Stewardship: A Common Reference for Ecosystem Management*, Volume 2, edited by R. C. Szaro, N. C. Nelson, W. J. Sexton, and A. J. Malk, pp. 493-515. Elsevier Science, Oxford.
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