



## Leonard Ortolano

UPS Foundation Professor of Civil Engineering in Urban and Regional Planning,  
Emeritus

Civil and Environmental Engineering

### CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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#### BIO

Ortolano is concerned with environmental and water resources policy and planning. His research stresses environmental policy implementation in developing countries and the role of non-governmental organizations in environmental management. His recent interests center on corporate environmental management.

#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Civil and Environmental Engineering
- Affiliate, Precourt Institute for Energy
- Affiliate, Stanford Woods Institute for the Environment

#### HONORS AND AWARDS

- Lillian and Thomas B. Rhodes Prize for Excellence in Undergraduate Teaching, Stanford University (1996)
- Eugene L. Grant Award for Excellence in Teaching, Stanford University (2005)
- Fulbright-Hays Research Grants, Rome, Italy, and Paris, France
- Lectureship, National Science Council of the Republic of China
- Visiting professorships, Istituto Universitario di Architettura di Venezia, Dipartimento di Urbanistica, Venice, Italy
- Institut National Polytechnique de Toulouse, ENSEEIHT, Toulouse, France

#### PROGRAM AFFILIATIONS

- Center for East Asian Studies
- Center for Latin American Studies

#### PROFESSIONAL EDUCATION

- PhD, Harvard (1969)

## Teaching

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### COURSES

#### 2020-21

- Resilience, Sustainability and Water Resources Development: CEE 265A (Aut)
- Shaping the Future of the Bay Area: CEE 118Y, CEE 218Y, ESS 118Y, ESS 218Y, GEOPHYS 118Y, GEOPHYS 218Y, PUBLPOL 118Y, PUBLPOL 218Y (Win)

#### 2019-20

- Adaptation to Sea Level Rise and Extreme Weather Events: CEE 265E (Aut)
- Environmental Governance and Climate Resilience: CEE 265F, POLISCI 227B, PUBLPOL 265F (Win)
- Shaping the Future of the Bay Area: CEE 118Y (Win)
- Shaping the Future of the Bay Area: CEE 118Z (Spr)
- Shaping the Future of the Bay Area: CEE 218Y (Win)
- Shaping the Future of the Bay Area: CEE 218Z (Spr)
- Shaping the Future of the Bay Area: GEOPHYS 118Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 118Z (Spr)
- Shaping the Future of the Bay Area: GEOPHYS 218Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 218Z (Spr)

#### 2018-19

- Environmental Governance and Climate Resilience: CEE 265F, PUBLPOL 265F (Aut)
- Sustainable Urban Systems Fundamentals: CEE 124X, CEE 224X (Aut)
- Sustainable Urban Systems Fundamentals: ESS 118X, ESS 218X, GEOLSCI 118X, GEOLSCI 218X, GEOPHYS 118X, GEOPHYS 218X, POLISCI 224X, PUBLPOL 118X (Aut)
- Sustainable Urban Systems Project: CEE 124Y (Win)
- Sustainable Urban Systems Project: CEE 124Z (Spr)
- Sustainable Urban Systems Project: CEE 224Y (Win)
- Sustainable Urban Systems Project: CEE 224Z (Spr)
- Sustainable Urban Systems Project: GEOPHYS 118Y (Win)
- Sustainable Urban Systems Project: GEOPHYS 118Z (Spr)
- Sustainable Urban Systems Project: GEOPHYS 218Y (Win)
- Sustainable Urban Systems Project: GEOPHYS 218Z (Spr)
- Sustainable Water Resources Development: CEE 265A (Win)

#### 2017-18

- Adaptation to Sea Level Rise and Extreme Weather Events: CEE 265E (Aut)
- Sustainable Urban Systems Project: CEE 124Y (Win)
- Sustainable Urban Systems Project: CEE 124Z (Spr)
- Sustainable Urban Systems Project: CEE 224Y (Win)
- Sustainable Urban Systems Project: CEE 224Z (Spr)
- Sustainable Water Resources Development: CEE 265A (Win)

## STANFORD ADVISEES

### Master's Program Advisor

Surabhi Daryapurkar, Anuka King, Cathy Wang, Shanni You

### Doctoral Dissertation Co-Advisor (AC)

Gus Greenstein

## Publications

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### PUBLICATIONS

- **When floods hit the road: Resilience to flood-related traffic disruption in the San Francisco Bay Area and beyond.** *Science advances*  
Kasmalkar, I. G., Serafin, K. A., Miao, Y., Bick, I. A., Ortolano, L., Ouyang, D., Suckale, J.  
2020; 6 (32): eaba2423
- **Colonial dynamics limit climate adaptation in Oceania: Perspectives from the Marshall Islands** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
Bordner, A. S., Ferguson, C. E., Ortolano, L.  
2020; 61
- **Managing water-related risks in the West Bengal Sundarbans: policy alternatives and institutions** *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*  
Sanchez-Triana, E., Ortolano, L., Paul, T.  
2018; 34 (1): 78–96
- **forthcoming, A Behavioral Model of Muddling Through in the Chinese Bureaucracy: The Case of Environmental Protection Regulation** *The China Journal*  
Zhou, X., Lian, H., Ortolano, L., Ye, Y.
- **Discussion Paper for SEA Case Study on the Shift from Road Maintenance Fees to a Tax on Gasoline and Diesel Fuel** *report prepared for ESSA Technologies, Vancouver, British Columbia, Canada.*  
Ortolano, L.
- **Strategy for adapting to climate change and conserving biodiversity in the Bangladesh Sundarbans** *CLIMATE AND DEVELOPMENT*  
Ortolano, L., Sanchez-Triana, E., Ferdousi, S. A.  
2017; 9 (4): 325-336
- **Urban Growth in China: Evolution in the Role of Urban Planners** *JOURNAL OF PLANNING EDUCATION AND RESEARCH*  
Perlstein, A., Ortolano, L.  
2015; 35 (4): 435-443
- **Effect of company size on potential for REACH compliance and selection of safer chemicals** *ENVIRONMENTAL SCIENCE & POLICY*  
Scruggs, C. E., Ortolano, L., Wilson, M. P., Schwarzman, M. R.  
2015; 45: 79-91
- **Cleaner production in Pakistan's leather and textile sectors** *JOURNAL OF CLEANER PRODUCTION*  
Ortolano, L., Sanchez-Triana, E., Afzal, J., Ali, C. L., Rebellon, S. A.  
2014; 68: 121-129
- **The entrepreneurship myth in small-scale service provision: Water resale in Maputo, Mozambique** *JOURNAL OF WATER SANITATION AND HYGIENE FOR DEVELOPMENT*  
Zuin, V., Ortolano, L., Davis, J.  
2014; 4 (2): 281-292
- **Factors influencing the technology upgrading and catch-up of Chinese wind turbine manufacturers: Technology acquisition mechanisms and government policies** *ENERGY POLICY*  
Qiu, Y., Ortolano, L., Wang, Y. D.  
2013; 55: 305-316

- **2012 Chester Rapkin Award for Best Planning Paper in Volume 30: "A Tale of Two Sitings: Contentious Politics in Liquefied Natural Gas Facility Siting in California"** *JOURNAL OF PLANNING EDUCATION AND RESEARCH*  
Boudet, H. S., Ortolano, L.  
2013; 33 (1): 120-120
- **Confronting Urban Displacement: Social Movement Participation and Post-Eviction Resettlement Success in Dar es Salaam, Tanzania** *JOURNAL OF PLANNING EDUCATION AND RESEARCH*  
Hooper, M., Ortolano, L.  
2012; 32 (3): 278-288
- **Motivations for slum dweller social movement participation in urban Africa: a study of mobilization in Kurasini, Dar es Salaam** *ENVIRONMENT AND URBANIZATION*  
Hooper, M., Ortolano, L.  
2012; 24 (1): 99-114
- **forthcoming, Confronting Urban Displacement: Social Movement Participation and Post-Eviction Resettlement Success in Dar es Salaam, Tanzania** *Journal of Planning Education and Research. Published online*  
Hooper, M., Ortolano, L.  
2012
- **Motivations for Urban Social Movement Participation in Africa: A Study of Slum Dweller Mobilization in Kurasini, Dar es Salaam** *Environment and Urbanization*  
Hooper, M., Ortolano, L.  
2012
- **Water supply services for Africa's urban poor: the role of resale** *JOURNAL OF WATER AND HEALTH*  
Zuin, V., Ortolano, L., Alvarinho, M., Russel, K., Thebo, A., Muximpua, O., Davis, J.  
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- **Creating safer consumer products: the information challenges companies face** *ENVIRONMENTAL SCIENCE & POLICY*  
Scruggs, C. E., Ortolano, L.  
2011; 14 (6): 605-614
- **Teaching Negotiation in the Context of Environmental Regulatory Enforcement: An Experiential Learning Approach** *Applied Environmental Education and Communication*  
Choy, M., S., Johnson, S., A., Ortolano, L.  
2011; 2 (10): 105-115
- **Water resale to neighbors in Maputo, Mozambique: price, service quality, and user satisfaction** *Journal of Water and Health*  
Choy, M., S., Johnson, S., A., Ortolano, L.  
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- **Implementing China's national energy conservation policies at state-owned electric power generation plants** *ENERGY POLICY*  
Zhao, X., Ortolano, L.  
2010; 38 (10): 6293-6306
- **A Tale of Two Sitings: Contentious Politics in Liquefied Natural Gas Facility Siting in California** *JOURNAL OF PLANNING EDUCATION AND RESEARCH*  
Boudet, H. S., Ortolano, L.  
2010; 30 (1): 5-21
- **JUDICIAL REVIEW OF ENVIRONMENTAL ADMINISTRATIVE DECISIONS: HAS IT CHANGED THE BEHAVIOR OF GOVERNMENT AGENCIES?** *CHINA JOURNAL*  
Zhang, X., Ortolano, L.  
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- **Agency Empowerment through the Administrative Litigation Law: Court Enforcement of Pollution Levies in Hubei Province** *CHINA QUARTERLY*  
Zhang, X., Ortolano, L., Lue, Z.  
2010: 307-326
- **Constructing carbon offsets: The obstacles to quantifying emission reductions** *ENERGY POLICY*  
Millard-Ball, A., Ortolano, L.

2010; 38 (1): 533-546

- **Handbook on Environmental Assessment of Water Quality Management Plans Water Quality and Quantity Assessment.** *was responsible for Chapter 2 entitled*  
Washington, D., C., Ortolano, L.  
edited by Heberer, T., Grunow, D., Li, H.  
U.S. Environmental Protection Agency.2010: 1
- **Environmental Degradation as a Cost of China's Economic Growth: Transitional Setback or Irreversible Change?** *in Growing Pains: Tensions and Opportunity in China's Transformation*  
Ortolano, L.  
edited by Oi, J., C., Rozelle, S., Zhou, X.  
Shorenstein APARC, Stanford and the Brookings Institution Press.2010: 1
- **Judicial Review of Environmental Administrative Decisions: Has It Changed Agency Behavior?** *The China Journal*  
Zhang, X., Ortolano, L.  
2010: 97-119
- **Development of Citizen-Organized Environmental NGOs in China** *VOLUNTAS*  
Ru, J., Ortolano, L.  
2009; 20 (2): 141-168
- **Implementing Programmes to Reduce Nitrate Pollution from Agriculture in Brittany, France** *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*  
Ortolano, L., Baumont, S., Puz, G.  
2009; 25 (4): 641-656
- **Preface to the Japanese edition of Ortolano, L.** *Environmental Regulation and Impact Assessment*  
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translated by Eizo Hideshima, and published by Kyoritsu Shuppan..2009: 1
- **Analyzing Beijing's in-use vehicle emissions test results using logistic regression** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Chang, C., Ortolano, L.  
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- **Air quality impacts of Tokyo's on-road diesel emission regulations** *TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT*  
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- **Policy-Level Strategic Environmental Assessments: Process Integration and Incentives of Policy Proponents** *Strategic Environmental Assessment for Policies: An Instrument for Good Governance*  
Ortolano, L.  
edited by Ahmad, K., Sanchez-Triana, E.  
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- **Introduction** *Man's Role: Cinquante Anni Dopo (Man's Role: Fifty Years Later)*  
Ortolano, L.  
edited by Role, M.  
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- **Corporatist Control of Environmental Non-Governmental Organizations: A State Perspective** *Chapter 3 in Embedded Environmentalism: Opportunities and Constraints of a Social Movement in China*  
Ru, J., Ortolano, L.  
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- **Community participation in urban sanitation - Experiences in northeastern Brazil** *JOURNAL OF PLANNING EDUCATION AND RESEARCH*  
Nance, E., Ortolano, L.  
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- **Benefits and Costs of Shanghai's Environmental Citizen Complaints System** *China Information*  
Warwick, M., Ortolano, L.  
2007; 21 (2): 237-268
- **Implementing cleaner production programmes in Changzhou and Nantong, Jiangsu Province** *DEVELOPMENT AND CHANGE*  
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2006; 37 (1): 99-120
- **Research Universities and Engaged Scholarship: A Leadership Agenda for Renewing the Civic Mission of Higher Education..** *Tufts University and Campus Compact. Providence, RI*  
Gibson, C., Ortolano, L.  
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- **Implementing Cleaner Production Programs in Changzhou and Nantong, Jiangsu** *Chapter 5 in China's Limit's to Growth*  
He Oliver, H., Ortolano, L.  
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- **Effects of Economic and Environmental Reform on Diffusion of Cleaner Coal Technology in China** *Chapter 4 in China's Limit's to Growth*  
Ohshita, S., B., Ortolano, L.  
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- **Effects of economic and environmental reform on the diffusion of cleaner coal technology in China** *DEVELOPMENT AND CHANGE*  
Ohshita, S. B., Ortolano, L.  
2006; 37 (1): 75-98
- **Influence of organizational learning on water pollution control in Colombia's Cauca Valley** *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*  
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- **Haas Center's First Twenty Years: Public Service Education at Stanford, Haas Center for Public Service** *Stanford University*  
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- **Lessons Learned and Future Directions: The Haas Center Turns Twenty** *Chapter 15, in Schmiede, A. and L. Ortolano Haas Center's First Twenty Years: Public Service Education at Stanford*  
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- **Transferring Cleaner Production Technologies to Industries in Changzhou and Nantong, China** *International Journal of Environmental Technology and Management*  
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- **Transferring Cleaner Production Technologies to Industries in Changzhou and Nantong, China** *International Journal of Environmental Technology and Management*  
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- **Evolution of the Haas Center for Public Service Chapter 1, in Schmiede** *Haas Center's First Twenty Years: Public Service Education at Stanford*  
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- **Implementing government assistance programmes for water and sewer systems in Texas colonias** *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*  
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- **Appraising Effects of Mitigation Measures: The Grand Coulee Dam's Impacts on Fisheries** *EIA and SEA Follow-up*  
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- **Assessing Efforts to Mitigate Grand Coulee Dam's Effects on Fisheries** *EIA Follow-up: Beyond the Decision*  
Ortolano, L., May, C., L.  
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- **The Chinese government's role in implementing multilateral environmental agreements: The case of the Montreal protocol** *CHINA QUARTERLY*  
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- **From Demonstration to Diffusion: the Gap in Japan's Environmental Technology Cooperation with China** *International Journal of Technology Transfer and Cooperation*  
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- **Cleaner Production Programme in Taiyuan City, China** *International Journal of Technology Transfer and Commercialization*  
He, H., Ortolano, L., Shi, H.  
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- **Grand Coulee Dam 70 years later: What can we learn?** *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*  
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- **The Promise and Pitfalls of Japanese Cleaner Coal Technology Transfer to China** *International Journal of Technology Transfer and Commercialization*,  
Ohshita, S., B., Ortolano, L.  
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- **Linking Trade and Environment: Impact of Two NAFTA Institutions on Border Water Infrastructure** *Both Sides of the Border: Transboundary Environmental Management Issues Facing Mexico and the United States*  
Carter, N., Ortolano, L.  
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- **Il Caso Grand Coulee Dam (Grand Coulee Dam Case Study)** *Nuevas Fronteras della Valuatione di Impatto Ambientale (New Frontiers in Environmental Impact Assessment)*  
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- **The Promise and Pitfalls of Japanese Cleaner Coal Technology Transfer to China** *International Journal of Technology Transfer and Commercialization*  
Ohshita, S., B., Ortolano, L.  
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- **The Role of Two NAF Institutions in Developing Water for Infrastructure in the U.S. Mexico Border Region** *Publication División de Administración Pública, Centro de Investigación y Docencia Económicas, (Center of Economic Research and Teaching), Mexico City, Mexico.*  
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- **Learning processes in development planning - A theoretical overview and case study** *JOURNAL OF PLANNING EDUCATION AND RESEARCH*  
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2001; 20 (4): 448-463
  
- **Organizational Learning and Environmental Impact Assessment at Colombia's Cauca Valley Corporation** *Environmental Impact Assessment Review*  
Sanchez-Triana, E., Ortolano, L.  
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- **Using Simulation to Teach Negotiation Processes to Environmental Engineers** *Journal of Engineering Education*  
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- **The evolution of an international water resources management regime in the Mekong river basin** *NATURAL RESOURCES JOURNAL*  
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- **Water and Wastewater in the U.S.–Mexico Border Region: A Perspective on BECC and NADBank** *International Journal of Water Resources Development*  
Carter, N., Ortolano, L.  
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- **WCD Case Study: Grand Coulee Dam and Columbia Basin Project USA** *report prepared for World Commission on Dams, Cape Town, South Africa.*  
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- **Incentives and Barriers to Clean Coal Technology Diffusion in Chinese Enterprises** *Proceedings of the Second International Symposium on Clean Coal Technology*  
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- **Environmental Regulation in China: Institutions, Enforcement and Compliance**  
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- **Implementing the Montreal Protocol in China: Use of Cleaner Production in Two Industrial Sectors** *Environmental Impact Assessment Review*  
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- **Learning to Design and Implement Environmental Policies: The Case of the Cauca Valley Authority in Colombia**  
Sánchez-Triana, E., Ortolano, L.  
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- **Grand Coulee Dam and Columbia Basin Project Case Study– Scoping Report** *prepared for the World Commission Dams, Cape Town, South Africa*  
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- **Pollution Prevention Incentives and Responses in Chinese Firms** *Environmental Impact Assessment Review*  
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- **Introduction to Cleaner Production in China** *Environmental Impact Assessment Review*  
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- **Clean Coal Technology Diffusion in Chinese Enterprises: ncentives and Barerns in the Midst of Reform**  
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- **Pollution Prevention in China's Electroplating Industry** *Envionmental Engineering and Policy*  
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- **A Model Describing Performance of Rural Drinking Water Systems in Honduras** *International Journal of Water Resources Development*  
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● **Environmental Regulation and Impact Assessment**

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● **Ecoproduction in a Global Context: Pollution Prevention Strategies in Chinese Industry**

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● **Environmental Decision Making in Chinese Firms: Pollution Prevention at the Phoenix Electroplating Factory**

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● **Ecologia dell' Impatto Ambientale (Ecology of Environmental Impacts)**

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● **Organizational Change and Environmental Impact Assessment at the Electricity Generating Authority of Thailand: 1972-1988** *Environmental Impact Assessment Review*

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● **Going Green in China**

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● **Water-supply system operations: Critiquing expert-system approach** *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE*

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● **Strategic environmental assessment for sustainable urban development** *ENVIRONMENTAL IMPACT ASSESSMENT REVIEW*

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● **Water Supply System Operations: A Critiquing Expert System Approach** *Journal of Water Resources Planning and Management*

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● **Strategic Environmental Assessment for Sustainable Urban Development** *Environmental Impact Assessment Review*

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● **Influence of Institutional Arrangements on EIA Effectiveness in China**

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● **Use of Water Banks to Reduce Adverse Socioeconomic Impacts of Drought** *prepared for the Industrial Technology Research Institute, Hsinchu, Taiwan, Republic of China*

Ortolano, L., Oshita, S., B.  
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● **Environmental Impact Assessment** *Environmental and Social Impact Assessment*

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● **Modelos de Calidad del Aire (Air Quality Models)** *Licencias Ambientales: Evaluación de Impacto Ambiental: Instrumento de Planificación (Environmental Licences: Environmental Impact Assessment as a Planning Instrument*

Casas, W., Ortolano, L., Triana, E., Sánchez  
edited by Triana, E., Sánchez, Mondo, T.

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- **Environmental Impact Assessment: Challenges and Opportunities** *Impact Assessment*  
Ortolano, L., Shepherd, A.  
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- **How Institutional Arrangement Influence EIA Effectiveness**  
Ortolano, L.  
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- **Implementing Environmental Policy in China**  
Sinkule, B., J., Ortolano, L.  
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- **CRITIQUING EXPERT-SYSTEMS FOR PLANNING AND MANAGEMENT** *COMPUTERS ENVIRONMENT AND URBAN SYSTEMS*  
Shepherd, A., Ortolano, L.  
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- **FACTORS INFLUENCING ADOPTION OF AUTOMATION AT WASTE-WATER TREATMENT PLANTS IN JAPAN** *JOURNAL OF TECHNOLOGY TRANSFER*  
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- **Comprehensive Framework for Drought Management: Models to Assist Industrial Water Decision Makers** *Report, Industrial Technology Reserch Institute, Hsinchu, Taiwan, Republic of China*  
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- **Pollutant Discharge Fees in China: Case Study of a Factory in Guandong Province** *Asian Journal of Environmental Management*  
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- **Environmental Impact Assessment: Challenges and Opportunities** *in Résumés des Communications the 14th Annual Meeting of the International Association for Impact Assessment*  
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- **Decision Support System for Industrial Drought Management** *prepared for the Industrial Technology Research Institute, Hsinchu, Taiwan, Republic of China*  
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- **Observations on Proposed Regulations Governing Hazardous Waste Management, Environmental Licences and Discharge Fees in Columbia,** *prepared for the Ministry of the Environment, Bogota, Colombia*  
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- **Implementation of EIA Procedures for Medium Size Factories: Case Studies in South China** *in Development and the Environment, the 13th Annual Meeting of the International Association for Impact Assessment Shanghai, China*  
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- **Controls on Project Proponents and Environmental Impact Assessment Effectiveness** *The Environmental Professional*  
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