

# Edoardo Croci

Professor of Practice



**Knowledge group:** Strategy and Operations

**Research domains:** Sustainability

**Teaching domains:**

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## Biography

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### Articles in Scholarly Journals

**Are European cities achieving emission reduction commitments? A comparative analysis under the Covenant of Mayors initiative**

LUCCHITTA, B., V. PALERMO, G. MELICA, T. MOLTENI, A. BURRO, P. BERTOLDI, E. CROCI, "Are European cities achieving emission reduction commitments? A comparative analysis under the Covenant of Mayors initiative", Heliyon, 2024, vol. 10, no. 1, pp. e23423

**The green economy in the Italian Alps: A geospatial indicator-based territorial assessment**

COLELLI, F. P., E. CROCI, B. LUCCHITTA, "The green economy in the Italian Alps: A geospatial indicator-based territorial assessment", Economics and Policy of Energy and the Environment, 2024, no. 2, pp. 145-171

**Deposit return schemes. Tra efficacia e (dis)incentivi**

COLELLI, F. P., E. CROCI, F. PONTONI, S. F. ZANINI, "Deposit return schemes. Tra efficacia e (dis)incentivi", Gnosis, 2023, no. 4, pp. 107-117

**Supporting urban decision-making processes through supply-side technologies characterisation**

RODRIGUEZ ALONSO, C., A. QUIJANO, E. VALLEJO ORTEGA, A. HUOVILA, T. MOLTENI, E. CROCI, I. URKOLA, "Supporting urban decision-making processes through supply-side technologies characterisation", Journal of Physics: Conference Series, 2023, vol. 2600, no. 8, pp. 082035

**An urban PES model for diffused green areas requalification and maintenance in Milan**

CROCI, E., B. LUCCHITTA, T. PENATI, "An urban PES model for diffused green areas requalification and maintenance in Milan", Environmental Science & Policy, 2022, vol. 130, pp. 47-60

**Assessment of the effectiveness and efficiency of packaging waste EPR schemes in Europe**

COLELLI, F. P., E. CROCI, F. PONTONI, S. F. ZANINI, "Assessment of the effectiveness and efficiency of packaging waste EPR schemes in Europe", *Waste Management*, 2022, vol. 148, pp. 61-70

#### **Boosting energy home renovation through innovative business models: ONE-STOP-SHOP solutions assessment**

BAGAINI, A., E. CROCI, T. MOLTENI, "Boosting energy home renovation through innovative business models: ONE-STOP-SHOP solutions assessment", *Journal of Cleaner Production*, 2022, vol. 331, pp. 129990

#### **Impact of circular measures to reduce urban CO2 emissions: An analysis of four case studies through a production- and consumption-based emission accounting method**

DEL BORGHI, A., M. GALLO, N. SILVESTRI, O. BACCELLI, E. CROCI, T. MOLTENI, "Impact of circular measures to reduce urban CO2 emissions: An analysis of four case studies through a production- and consumption-based emission accounting method", *Journal of Cleaner Production*, 2022, vol. 380, pp. 134932

#### **An LCA comparison of last-mile distribution logistics scenarios in Milan and Turin municipalities**

CROCI, E., M. DONELLI, F. COLELLI, "An LCA comparison of last-mile distribution logistics scenarios in Milan and Turin municipalities", *Case Studies on Transport Policy*, 2021, vol. 9, no. 1, pp. 181-190

#### **Assessment of environmental and economic benefits of packaging waste system in Italy**

COLELLI, F. P., E. CROCI, "Assessment of environmental and economic benefits of packaging waste system in Italy", *Economics and Policy of Energy and the Environment*, 2021, no. 1, pp. 37-58

#### **Business Models for Smart City Solutions**

CROCI, E., T. MOLTENI, "Business Models for Smart City Solutions", *International Journal of Urban Planning and Smart Cities (IJUPSC)*, 2021, vol. 2, no. 2, pp. 94-109

#### **Low carbon urban strategies: An investigation of 124 European cities**

CROCI, E., B. LUCCHITTA, T. MOLTENI, "Low carbon urban strategies: An investigation of 124 European cities", *Urban Climate*, 2021, vol. 40, pp. 101022

#### **State of the Art and Latest Advances in Exploring Business Models for Nature-Based Solutions**

MAYOR, B., H. TOXOPEUS, S. MCQUAID, E. CROCI, B. LUCCHITTA, S. E. REDDY, A. EGUSQUIZA, M. A. ALTAMIRANO, T. TRUMBIC, A. TUERK, G. GARCÍA, E. FELIU, C. MALANDRINO, J. SCHANTE, A. JENSEN, E. LÓPEZ GUNN, "State of the Art and Latest Advances in Exploring Business Models for Nature-Based Solutions", *Sustainability*, 2021, vol. 13, no. 13, pp. 7413

#### **The relationship between air pollution and diabetes: A study on the municipalities of the Metropolitan City of Milan**

MERONI, G., A. VALERIO, M. VEZZOLI, E. CROCI, M. O. CARRUBA, "The relationship between air pollution and diabetes: A study on the municipalities of the Metropolitan City of Milan", *Diabetes Research and Clinical Practice*, 2021, vol. 174, pp. 108748

#### **Valuing Ecosystem Services at the Urban Level: A Critical Review**

CROCI, E., B. LUCCHITTA, T. PENATI, "Valuing Ecosystem Services at the Urban Level: A Critical Review", *Sustainability*, 2021, vol. 13, no. 3, pp. 1129

### **Assessing the relevance of barriers to energy efficiency implementation in the building and transport sectors in eight European countries**

BAGAINI, A., F. COLELLI, E. CROCI, T. MOLTENI, "Assessing the relevance of barriers to energy efficiency implementation in the building and transport sectors in eight European countries", *The Electricity Journal*, 2020, vol. 33, no. 8, pp. 106820

### **Regions and Cities Cooperating for Sustainable Energy in Europe: Models of Multi-Level Governance**

CROCI, E., T. MOLTENI, "Regions and Cities Cooperating for Sustainable Energy in Europe: Models of Multi-Level Governance", *SR Scienze Regionali - Italian Journal of Regional Science*, 2019, no. 1, pp. 93-114

### **Nature-based solutions (NBSs) for urban resilience : introduction**

LUCCHITTA, B., E. CROCI, "Nature-based solutions (NBSs) for urban resilience : introduction", *Economics and Policy of Energy and the Environment*, 2018, no. 2, pp. 31-42

### **Special section. Circular economy: Concepts and applications: Introduction**

IRALDO, F., E. CROCI, S. SCARPELLINI, "Special section. Circular economy: Concepts and applications: Introduction", *Economics and Policy of Energy and the Environment*, 2017, no. 1/2, pp. 47-56

### **Urban CO2 mitigation strategies under the Covenant of Mayors: An assessment of 124 European cities**

CROCI, E., B. LUCCHITTA, G. JANSSENS-MAENHOUT, S. MARTELLI, T. MOLTENI, "Urban CO2 mitigation strategies under the Covenant of Mayors: An assessment of 124 European cities", *Journal of Cleaner Production*, 2017, vol. 169, pp. 161-177

### **Urban Road Pricing: A Comparative Study on the Experiences of London, Stockholm and Milan**

CROCI, E., "Urban Road Pricing: A Comparative Study on the Experiences of London, Stockholm and Milan", *Transportation Research Procedia*, 2016, vol. 14, pp. 253-262

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## **Edited Books**

### **Nature-Based Solutions for More Sustainable Cities – A Framework Approach for Planning and Evaluation**

CROCI, E., B. LUCCHITTA (Eds.), "Nature-Based Solutions for More Sustainable Cities – A Framework Approach for Planning and Evaluation" - 2021, Emerald Group Publishing Limited

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## **Contribution to Chapters, Books or Research Monographs**

### **A Critical Review of District Heating and District Cooling Socioeconomic and Environmental Benefits**

AHMED, S. M. M., E. CROCI, A. BAGAINI, "A Critical Review of District Heating and District Cooling Socioeconomic and Environmental Benefits" in *Technological Innovation for Connected Cyber Physical Spaces.*, Luis M. Camarinha-Matos, Filipa Ferrada (Eds.), Springer Cham, pp. 3-18, 2023

### **Il valore dei servizi ecosistemici e i PES**

LUCCHITTA, B., E. CROCI, "Il valore dei servizi ecosistemici e i PES" in Pisa 2050. Connessioni verdibili per la città del futuro., Michele Conti, Fabio Daole, Raffaele Latrofa, Gianluca Ottaviani, Novella B. Cappelletti (Eds.), Paysage, pp. 25-31, 2023

### **Il valore delle NBS**

CROCI, E., B. LUCCHITTA, "Il valore delle NBS" in Innovazione e sostenibilità per il futuro delle smart cities., Giuseppe Franco Ferrari (Ed.), Mimesis Edizioni, pp. 725-740, 2023

### **Climate Change and Urban Nature: Impacts and Policies at the Urban Level**

CROCI, E., B. LUCCHITTA, "Climate Change and Urban Nature: Impacts and Policies at the Urban Level" in Planning Climate Smart and Wise Cities., Kwi-Gon Kim, Massamba Thioye (Eds.), Springer International Publishing, pp. 141-164, 2022

### **An Evaluation Framework to Assess Multiple Benefits of NBS: Innovative Approaches and KPIs**

FRANCÉS, R. S., S. G. VALLE, N. G. RUEDA, B. LUCCHITTA, E. CROCI, "An Evaluation Framework to Assess Multiple Benefits of NBS: Innovative Approaches and KPIs" in Nature-Based Solutions for More Sustainable Cities – A Framework Approach for Planning and Evaluation., Edoardo Croci, Benedetta Lucchitta (Eds.), Emerald Group Publishing Limited, pp. 153-185, 2021

### **Assessing Integrated Circular Actions as Nexus Solutions Across Different Urban Challenges: Evidence Toward a City-Sensitive Circular Economy**

ANDREUCCI, M. B., E. CROCI, "Assessing Integrated Circular Actions as Nexus Solutions Across Different Urban Challenges: Evidence Toward a City-Sensitive Circular Economy" in Smart and Sustainable Planning for Cities and Regions., Adriano Bisello, Daniele Vettorato, Håvard Haarstad, Judith Borsboom-van Beurden (Eds.), Springer International Publishing, pp. 215-225, 2021

### **Goal 7: Assicurare a tutti l'accesso a sistemi di energia economici, affidabili, sostenibili e moderni**

BAGAINI, A., E. CROCI, B. LUCCHITTA, T. MOLTENI, "Goal 7: Assicurare a tutti l'accesso a sistemi di energia economici, affidabili, sostenibili e moderni" in Rapporto Lombardia 2020. Volume 1., Polis Lombardia (Ed.), Edizioni Angelo Guerini e Associati, pp. 167-182, 2021

### **Il Green Deal e il Recovery Plan, un nuovo quadro per una riconversione urbana sostenibile, circolare e smart**

CROCI, E., T. MOLTENI, "Il Green Deal e il Recovery Plan, un nuovo quadro per una riconversione urbana sostenibile, circolare e smart" in Le smart cities al tempo della resilienza., Giuseppe Franco Ferrari (Ed.), Mimesis Edizioni, pp. 375-392, 2021

### **Valuation Methodologies of Ecosystem Services Provided by NBS in Urban Areas**

LUCCHITTA, B., E. CROCI, "Valuation Methodologies of Ecosystem Services Provided by NBS in Urban Areas" in Nature-Based Solutions for More Sustainable Cities – A Framework Approach for Planning and Evaluation., Edoardo Croci, Benedetta Lucchitta (Eds.), Emerald Group Publishing Limited, pp. 187-198, 2021

### **Green business models per le smart cities**

CROCI, E., T. MOLTEMI, "Green business models per le smart cities" in Smart City. L'evoluzione di un'idea., Giuseppe Franco Ferrari (Ed.), Mimesis Edizioni, pp. 409-422, 2020

### **Reshaping environmental policies**

CROCI, E., "Reshaping environmental policies" in Rules of Utopia: Policies to drive us out of the crisis., Enrica Chiappero (Ed.), Fondazione Giangiacomo Feltrinelli, pp. 96-108, 2019

### **The costs and benefits of extended producer responsibility: an evaluation of the Italian waste electrical and electronic equipment(WEEE) management system**

CROCI, E., F. COLELLI, "The costs and benefits of extended producer responsibility: an evaluation of the Italian waste electrical and electronic equipment(WEEE) management system" in Environmental Fiscal Challenges for Cities and Transport., Marta Villar Ezcurra, Janet E. Milne, Hope Ashiabor, Mikael Skou Andersen (Eds.), Edward Elgar Publishing, pp. 60-74, 2019

### **Le politiche di tutela dell'ambiente**

CROCI, E., "Le politiche di tutela dell'ambiente" in Capitale naturale. Ecologia, economia e politica per società sostenibili., Bianca Dendena (Ed.), Fondazione Giangiacomo Feltrinelli, pp. 31-34, 2018

### **Ambiente urbano e servizi ecosistemici**

CROCI, E., B. LUCCHITTA, "Ambiente urbano e servizi ecosistemici" in La prossima città., Giuseppe Franco Ferrari (Ed.), Mimesis Edizioni, pp. 551-577, 2017

### **La riforma dei rifiuti: un bilancio venti anni dopo per affrontare le nuove sfide europee**

CROCI, E., D. GRASSO, "La riforma dei rifiuti: un bilancio venti anni dopo per affrontare le nuove sfide europee" in La riforma dei rifiuti. A 20 anni dal D.Lgs 22/97 e alla vigilia delle nuove direttive rifiuti-Circular Economy., Edo Ronchi (Ed.), Edizioni Ambiente, pp. 55-70, 2017

### **Misurare le smart cities**

CROCI, E., F. P. COLELLI, "Misurare le smart cities" in La prossima città., Giuseppe Franco Ferrari (Ed.), Mimesis Edizioni, pp. 681-713, 2017

### **Verso una logistica urbana smart**

CROCI, E., D. GRASSO, "Verso una logistica urbana smart" in La prossima città., Giuseppe Franco Ferrari (Ed.), Mimesis Edizioni, pp. 375-403, 2017

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## **Proceedings/Presentations**

### **Impact of covid-19 policy responses on health, socio-economic and environmental dimensions in five countries**

MORANI, F., S. ODELLI, E. CROCI, A. BAGAINI, F. MORANI, S. ODELLI, A. CANDIA, S. STERI, C. RENZI, A. Odone, C. Signorelli, G. Imperiali, "Impact of covid-19 policy responses on health, socio-economic and environmental dimensions in five countries" in 17th World Congress on Public Health, May 2-6, 2023, Rome, Italy