



# SUSTAINABLE PRODUCTION AND CONSUMPTION

Publication of the Institution of Chemical Engineers

## AUTHOR INFORMATION PACK

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### DESCRIPTION

Sustainable production and consumption can be defined as production and use of products and services in a manner that is socially beneficial, economically viable and environmentally benign over their whole life cycle. The journal aims to provide a leading platform for publishing high-quality interdisciplinary papers on research and practice in this emerging field. It looks uniquely at the interactions between technology, consumption and policy to help identify more-sustainable solutions for both production and consumption systems.

Papers from engineers, natural and social scientists as well as philosophers are invited and those at the interface between these disciplines are particularly encouraged. Types of article published by the journal include original research, perspectives, short communications, policy and review papers.

All papers should include some elements of life cycle thinking and should clearly demonstrate that they are addressing topics related to sustainable production and consumption. Note that papers on end-of-pipe treatment technologies are outside the scope.

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- Clean technology/cleaner production
- Climate change mitigation
- Consumer engagement and communication
- Corporate social responsibility
- Eco-efficiency
- Ecosystem services
- Ethical investment and consumption
- Green/sustainable chemistry
- Industrial ecology
- Intra/Intergenerational equity
- Life cycle management
- Life cycle thinking
- Life cycle sustainability assessment
- Producer responsibility
- Rebound effect
- Supply chain management
- Sustainable business models

- Sustainable design
- Sustainable lifestyles
- Sustainable policies
- Sustainable procurement
- Sustainable products and services

### **Tools**

- Carbon and water footprinting
- Analysis of consumer preferences and attitudes
- Economic measures and instruments
- Integrated product policies
- Internalisation of environmental and social costs
- Life cycle assessment
- Life cycle costing
- Material flow analysis
- Multi-criteria decision analysis
- Scenario analysis
- Social life cycle assessment
- Stakeholder analysis
- Sustainability indicators
- System optimisation

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crude oil market, carbon trading, energy policy, environmental management

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Reference to a book:

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Reference to a website:

Cancer Research UK, 1975. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> (accessed 13 March 2003).

Reference to a dataset:

[dataset] Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T., 2015. Mortality data for Japanese oak wilt disease and surrounding forest compositions. Mendeley Data, v1. <https://doi.org/10.17632/xwj98nb39r.1>.

Reference to software:

Coon, E., Berndt, M., Jan, A., Svyatsky, D., Atchley, A., Kikinzon, E., Harp, D., Manzini, G., Shelef, E., Lipnikov, K., Garimella, R., Xu, C., Moulton, D., Karra, S., Painter, S., Jafarov, E., & Molins, S., 2020. Advanced Terrestrial Simulator (ATS) v0.88 (Version 0.88). Zenodo. <https://doi.org/10.5281/zenodo.3727209>.

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