



Special issue on green energy, innovation, government spending, sustainable tourism & production under climate change and pollution (ENTECON)—environmental science and pollution research

Cem Işık¹ · Serdar Ongan² · Munir Ahmad^{3,4} · Rafael Alvarado⁵

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Editorial,

The field of energy/environmental/government/tourism economics has been constantly changing and that green energy/tourism research has a rapidly evolving structure (Ongan et al. 2023; Işık et al. 2018, 2017, 2019, 2022, 2023). Although numerous energy/tourism economics studies have been published, the comprehensive intellectual improvement process of the energy/tourism economics field in energy/tourism study is not well depicted due to lack of green energy/tourism studies in this field. Therefore, a need exists for green studies that reveal the intellectual structure of the field. Such studies are valuable in terms of indicating the significance of the field, the development trend, showing the extent to which issues need to be studied in the future, and

guiding the improvement of the field. Also, green energy/tourism studies assist to reflect the research trends in that field and indicate the research trend in a particular field. The results of this research may advance knowledge and understanding in the general area of the green energy/government/environmental/tourism research field. Also, it provides a useful information for energy innovators/researchers to improve and improve their research plan/experience. Especially, knowledge of green energy/tourism research can help increase positive green energy/tourism research projects, such as *sharing economy*, *open innovation*, *sustainability*, *innovation*, and *technology*.

Finally, We would like to thank all those who contributed to this issue, including, the Editor in Chief, Philippe Garrigues, editors, reviewers, authors, and readers of *ESPR*, for your interest in the journal.

Responsible Editor: Philippe Garrigues

✉ Cem Işık
cemisik@anadolu.edu.tr

Serdar Ongan
serdarongan@usf.edu

Munir Ahmad
munirahmad@nbufe.edu.cn; munirncepu@gmail.com

Rafael Alvarado
rafaalvaradolopez@gmail.com

¹ Faculty of Economics and Administrative Sciences, Anadolu University, Tepebaşı-Eskişehir, Turkey

² Department of Economics, University of South Florida, Tampa, FL, USA

³ College of International Economics & Trade, Ningbo University of Finance and Economics, Ningbo 315175, Zhejiang, China

⁴ “Belt and Road” Bulk Commodity Research Center, Ningbo University of Finance and Economics, Ningbo 315175, Zhejiang, China

⁵ Esai Business School, Universidad Espiritu Santo, Samborondon 091650, Ecuador

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References

- Işık C, Dogru T, Turk ES (2018) A nexus of linear and non-linear relationships between tourism demand, renewable energy consumption, and economic growth: theory and evidence. *Int J Tour Res* 20(1):38–49
- Işık C, Kasımatı E, Ongan S (2017) Analyzing the causalities between economic growth, financial development, international trade, tourism expenditure and/on the CO2 emissions in Greece. *Energy Sources Part B: Econ Plan Pol* 12(7):665–673
- Işık C, Ongan S, Bulut U et al (2022) Reinvestigating the Environmental Kuznets Curve (EKC) hypothesis by a composite model constructed on the Armey curve hypothesis with government spending for the US States. *Environ Sci Pollut Res* 29:16472–16483. <https://doi.org/10.1007/s11356-021-16720-2>
- Işık C, Ongan S, Özdemir D (2019) Testing the EKC hypothesis for ten US states: an application of heterogeneous panel estimation method. *Environ Sci Pollut Res* 26:10846–10853

Işık C, Simionescu M, Ongan S et al (2023) Renewable energy, economic freedom and economic policy uncertainty: New evidence from a dynamic panel threshold analysis for the G-7 and BRIC countries. *Stoch Environ Res Risk Assess*. <https://doi.org/10.1007/s00477-023-02452-x>

Ongan S, Işık C, Amin A et al (2023) Are economic growth and environmental pollution a dilemma? *Environ Sci Pollut Res* 30:49591–49604. <https://doi.org/10.1007/s11356-023-25698-y>

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Cem Işık is an associate professor in the Faculty of Economics and Administrative Sciences at the Anadolu University. He received his bachelor's degree in economics from 9 Eylül and master's degree in MIS from UST/Houston/Texas. He earned a doctorate degree in economics from Ataturk University. Prior to joining Anadolu University, Dr. Işık worked at Ataturk University as an assistant professor for seven years. He teaches Tourism Economics and Innovation in Tourism.

His research interests include the tourism economics, energy economics, environmental economics innovation, and applied econometrics. He ranked in Stanford University of the World's Top 2% of Scientists.



Serdar Ongan earned his Ph.D. degree in 1999. He became Associate Professor in Macroeconomics in 2005 and Full Professor in 2010 at Istanbul University. He has been teaching different courses at the Department of Economics at the University of South Florida. Before this university, he taught at the St. Mary's College of Maryland between 2016 and 2021 and at the University of South Florida between 2013 and 2016. He is a former Fulbright scholar at

Michigan State University and the University of Rhode Island. Dr. Ongan published many books and *peer-reviewed papers*.



Munir Ahmad is currently Post-doc Research Fellow at School of Economics, Zhejiang University, Hangzhou (China). Dr. Ahmad's key research interests include energy economics and environmental economics. He is serving as referee of several well-reputed journals. Presently, he is working on 'Sustainable Development of Chinese Economy'.



Rafael Alvarado is currently investigating three topics: development economics, environmental economics, and energy economics. His research interests include development economics, environmental economics, and energy economics.