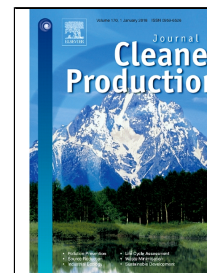


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Trade-off between productivity and environmental sustainability in irrigated vs. rainfed wheat production in Iran

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Highlights:

- Co-existing irrigated and rainfed wheat production systems are analyzed
- Primary wheat production data of 540 wheat producers is assessed
- Irrigation increases yields by 22% but GHG emissions by 110%
- High yield farmers have lower product carbon footprint than low yield farmers
- The viability of irrigation is questionable under increasing water competition

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