

# Environmental Science: Advances

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## IN THIS ISSUE

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**Cover**  
See Antoine Ghauch *et al.*, pp. 1244–1258. Image reproduced by permission of Antoine Ghauch from *Environ. Sci.: Adv.*, 2024, 3, 1244.



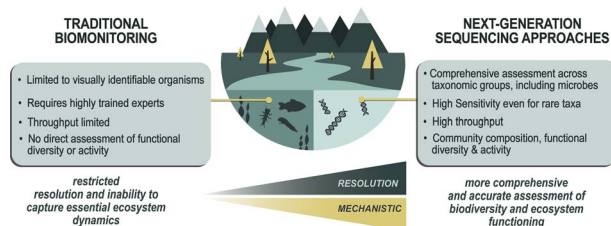
**Inside cover**  
See Matthew D. Taylor *et al.*, pp. 1259–1270. Image reproduced by permission of Matthew D. Taylor from *Environ. Sci.: Adv.*, 2024, 3, 1259.

## PERSPECTIVE

1181

### Solving freshwater conservation challenges through next-generation sequencing approaches

Milena Esser, Markus Brinkmann and Markus Hecker\*

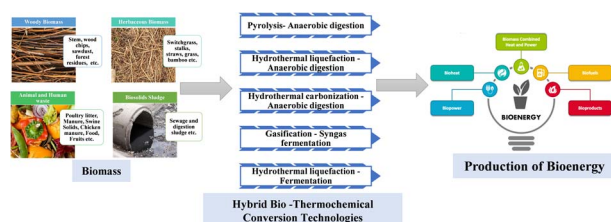


## CRITICAL REVIEWS

1197

### A review on waste biomass-to-energy: integrated thermochemical and biochemical conversion for resource recovery

Yasmin Ara Begum, Sheetal Kumari, Shailendra Kumar Jain and Manoj Chandra Garg\*



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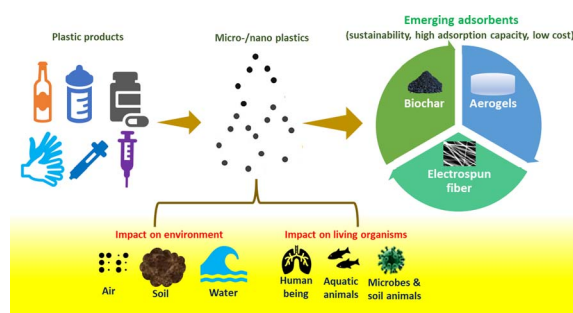


## CRITICAL REVIEWS

1217

## Exploring sustainable adsorbents to mitigate micro-/ nano-plastic contamination: perspectives on electrospun fibrous constructs, biochar, and aerogels

Krishna Priyadarshini Das, Pooja Chauhan, Ulrike Staudinger and Bhabani K. Satapathy\*

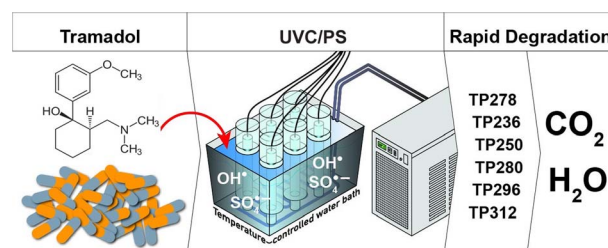


## PAPERS

1244

## From batch system toward continuous UV/PS based AOP reactor: the case of tramadol effluent degradation

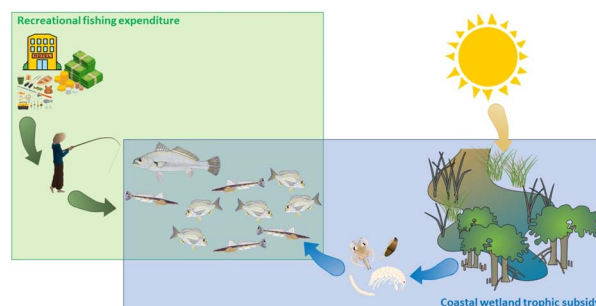
Weam Bou Karroum, Abbas Baalbaki, Amir Nasreddine, Nadim Oueidat and Antoine Ghauch\*



1259

## Recreational fishing expenditure as an indicator of coastal wetland habitat value

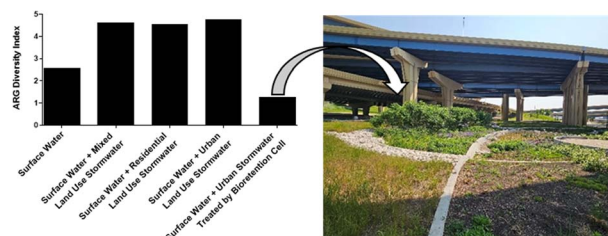
Matthew D. Taylor,\* Troy F. Gaston, Vincent Raoult, Julian M. Hughes, Jeff Murphy, Daniel E. Hewitt, Rod M. Connolly and Faith A. Ochwada-Doyle



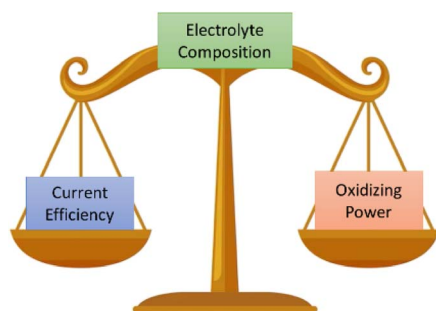
1271

## Stormwater alters the resistome of urban surface water, an impact that can be mitigated by green stormwater infrastructure

Kassidy O'Malley, Walter McDonald and Patrick McNamara\*



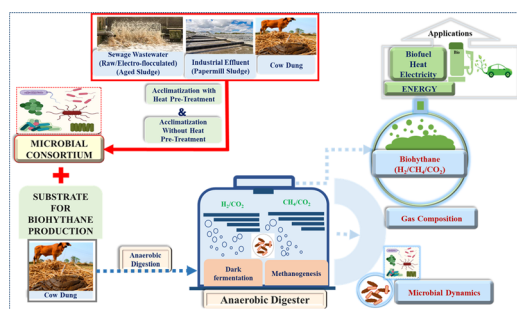
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## Anodic peroxide production for advanced oxidation processes with different metal oxide electrodes in carbonate electrolytes

Tobias Schanz and Jonathan Z. Bloh\*

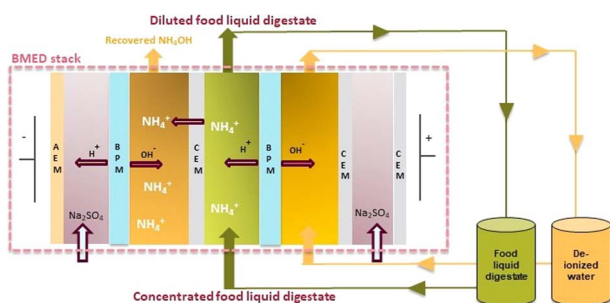
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## Production of biohythane from cow dung using novel microbial synthetic consortia designed by heat-treated and acclimatized combined wastes

Rashmi Ira, Vikas Sharma, Shrawan Kumar, Mira Koul, Lalita Sharma, Aditi Halder and Tulika Prakash\*

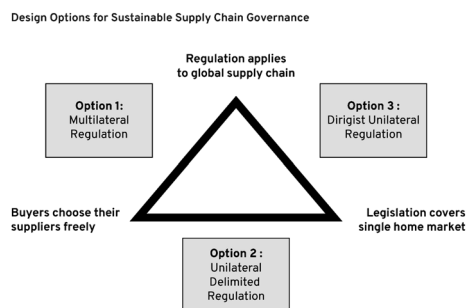
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## Enhancing ammonia recovery through pH polarization in bipolar membrane electrodialysis

Sandali Panagoda, Pengyi Yuan, Vladimir Pavlovic, John Barber and Younggy Kim\*

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## Advancing sustainability through supply chain legislation? A policy trilemma

Luc Fransen,\* Martin Curley and Anne Lally

