

### **DKIT ENVIRON 2026 POSTER ID**

1. Viruja Ummat: Green biorefinery approach for sustainable use of grassland into biochar **(Poster ID:1)**
2. Sameen Fatima: Developing an Integrated Life Cycle Sustainability Framework for Circular Bovine and Ovine Co-Product Valorisation **(Poster ID: 2)**
3. Megan O'Brien: Implementation of a green biorefinery pilot-plant for the processing of Irish green biomass into value-added products. **(Poster ID: 3)**
4. Julie Clarke: RESCUE: Developing a Climate Change Adaptation Toolkit to Enhance Local Resilience in Ireland: **(Poster ID: 4)**
5. Freddie Fallon: Detecting CO<sub>2</sub> effects on terrestrial ecosystem carbon storage from long term experiments and their implication for the global carbon cycle **(Poster ID: 5)**
6. Via Narasimhan: A Living Lab Approach to Monitoring and Mapping Invasive Alien Aquatic Species in the Sligo Town Region (Poster ID:6)
7. Chloe Martin: From Education to Evidence: Engaging Communities in Freshwater Pesticide Monitoring through the CS Hydro Tool Kit **(Poster ID:7)**
8. Aisling Uí Fhloinn: An Ghaeilge faoi Bhláth: Language, Land and Bioeconomy –Teaching Irish through Ecological Connection. **(Poster ID:8)**
9. Daniel Coonan: Cover cropping increases nitrogen uptake and reduces nitrate leaching losses following spring barley in five contrasting soils. **(Poster ID:9)**
10. Hannah Donnelly: A Comparative Analysis of the Compositional Profiles of Commonly Used Species in Multi-Species Swards and Their Role in Enhancing the Sustainability of Pasture-Based Farming Systems **(Poster ID:10)**
11. Sponsorship poster **(Poster ID:11)**
12. Mitch Wosinski: Species Detection: Rapid, Field-Deployable eDNA Assays using CRISPR-Cas Technology in the MariBiome Project: **(Poster ID:12)**
13. Krzysztof Szczepaniec: Integrated Technical and Economic Evaluation of Irish Floating Offshore Wind Site Options **(Poster ID: 13)**
14. Harry Kelly: Optimum Solutions for Saltmarsh Hydrological Restoration **(Poster ID:14)**
15. Paige Kenny: Improving Water Quality in cross-border catchments through nature-based solutions and community actions to meet Water Framework Directive goals **(Poster ID: 15)**
16. Bríd Burke: Conserving and restoring calcareous grassland in The Burren, Co. Clare, using the Old Irish Goat (*Capra aegagrus hircus*). **(Poster ID: 16)**
17. Rebecca Smith: Engaging Citizen Scientists in PMT/vPvM Chemical Monitoring: A Community-Based Training and Sampling Approach **(Poster ID: 17)**
18. Ismaila Abimbola: Holographic imaging and machine learning for microplastic size and shape analysis in water **(Poster ID:18)**

19. Haram Riaz: Combining Satellite, Sensors and Citizen Science for Coastal Monitoring: A Systematic Review **(Poster ID: 19)**
20. Naghmeh Akbari Zadeh: Economic Assessment of Hydrodynamic Performance Improvements in Floating Offshore Wind Turbines **(Poster ID: 20)**
21. Andrew Madigan: A Bioregional Partnership Approach to Address Biodiversity Challenges in Ireland's South East **(Poster ID: 21)**
22. Annette Cotter: What's up, DOC? A review of dissolved organic carbon concentration and export patterns in temperate and boreal river catchments **(Poster ID: 22)**
23. Jagdeep Kumar Nayak: Impacts of Mechanical Pre-Treatment Strategies on Green Juice Yield and Protein Precipitation in a Pilot-Scale Grass Biorefinery **(Poster ID: 23)**
24. Caoimhe Grace: FOLOU: Quantifying Food Waste and Food Loss in the Primary Production sector of Meat and Dairy in Ireland **(Poster ID: 24)**
25. Kofi Dua Agyei: Does NbS Performance Drive Investment? Stakeholder Perceptions and Financing Mechanisms for Freshwater Restoration **(Poster ID: 25)**
26. Eli Kane: Working towards a high-resolution hyperspectral database of blanket bog vegetation communities **(Poster ID: 26)**
27. Soumya Padinjarakavil: Biodegradable foam synthesized from lignin rich brewers spent grain waste with potential use as a sustainable alternative for packaging applications **(Poster ID: 27)**
28. Akser Alam Siddiqua Maya: Preparation of Calibration Protocol to Characterize and Quantify Organic Matter in Synthetic Dairy Wastewater using Fluorescence Excitation–Emission Matrix **(Poster ID: 28)**
29. Georgina Mooney: Monitoring and assessing the effectiveness of small-scale wetland ponds as an ecological water quality restoration measure in agricultural catchments **(Poster ID: 29)**
30. Soliu O. Mustapha: Herbage dry matter yield and species composition of novel grassland swards in their establishment year **(Poster ID: 30)**
31. Daragh Cogley: Circular Bioeconomy as Reharmonisation: Interpreting the Double Spiral as Right Relationship Between Economic Activity and Natural Cycles **(Poster ID: 31)**
32. Michelle McMullan: Developing circular economy systems and new KPIs to promote green hydrogen production and other co-product and by-product utilisation in the water and wastewater sector **(Poster ID: 32)**
33. Beauty Ezinne Japhet: Life Cycle Sustainability of Gluten-Free Food Systems: A Systematic Review of Evidence Gaps and Nutritional Functional Unit Integration **(Poster ID: 33)**
34. Musfir Ameen: Integrated Molecular and Optical Assessment of Aged Paints: ATR-FTIR Characterisation and Transferable Colour Prediction Models for Reuse Applications **(Poster ID: 34)**

35. Stephanie Woods: Environmental Education for Empowerment – A Response to Eco-anxiety Among Young People in Ireland (**Poster ID: 35**)
36. Tuan Booso: Toward a Hydrological Digital Twin: Basin-Scale Availability-Adaptive Reconstruction of Streamflow (**Poster ID: 36**)
37. Nathan Maréchal: Catchment Communities: Development of an Interdisciplinary Framework for Citizen Science-Based Monitoring of Water Quality in Ireland (**Poster ID: 37**)
38. Juan Esteban Quintero-Marin: Smart Pebbles in Coastal Citizen Science: Lessons from Environmental Co-Monitoring with Local Communities at Killiney Beach, Ireland (**Poster ID: 38**)
39. Conor Cassidy: Evaluation of ternary iron nickel boride electrocatalysts in sustainable electrochemical energy production (**Poster ID: 39**)