

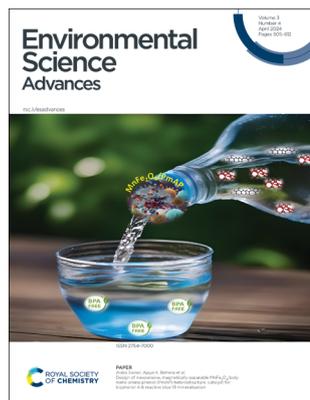
# Environmental Science: Advances

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## IN THIS ISSUE

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**Cover**  
See Alaka Samal, Ajaya K. Behera *et al.*, pp. 561–571.  
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## CRITICAL REVIEWS

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### Challenges for reliable analysis of uranium in natural waters using laser-induced fluorimetry/LED-fluorimetry in the presence of fluoride and diverse humic substances in hot arid regions and future advances – review

D. P. S. Rathore,\* P. K. Tarafder and V. Balaram

Reliable analysis of uranium in diverse water samples is a great challenge due to the presence of humic substances and fluoride content especially in hot arid regions. Uranium was determined by LED-fluorimeter using standard additions method.

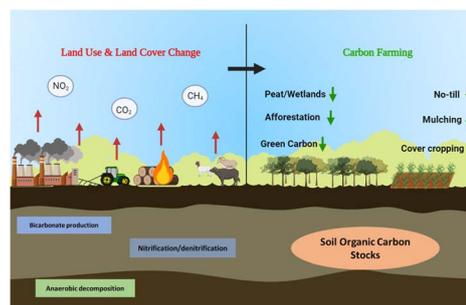
Due to time interval between sample collection and analysis.

Large variations in pH, Total dissolved salts, uranium, major cations, anions depending upon total dissolved salts concentrations due to time interval. Calcium fluoride is co-precipitant of uranium in water samples resulting in large variations. Moreover, biphasic separation of humic acids may take place in the form of flocks due to ~10 degree Celsius change in temperature around 40, which is rich in uranium and result in large variations. Analysis of water samples for uranium should be carried out preferably on the same day for reliable analysis.

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### Carbon farming: a circular framework to augment CO<sub>2</sub> sinks and to combat climate change

Shalini Singh, Boda Ravi Kiran and S. Venkata Mohan\*



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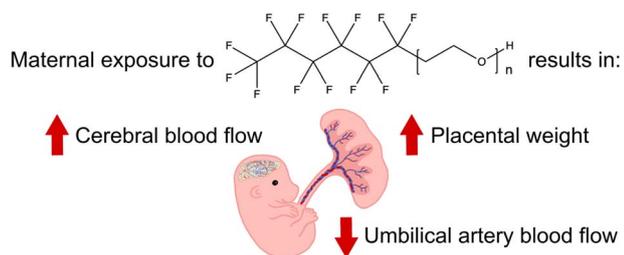
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### Fluorotelomer ethoxylates cause developmental toxicity in mice

Katherine L. Steeves, Jenna Hanrahan, Nikita E. Harvey, Karl J. Jobst and Lindsay S. Cahill\*

