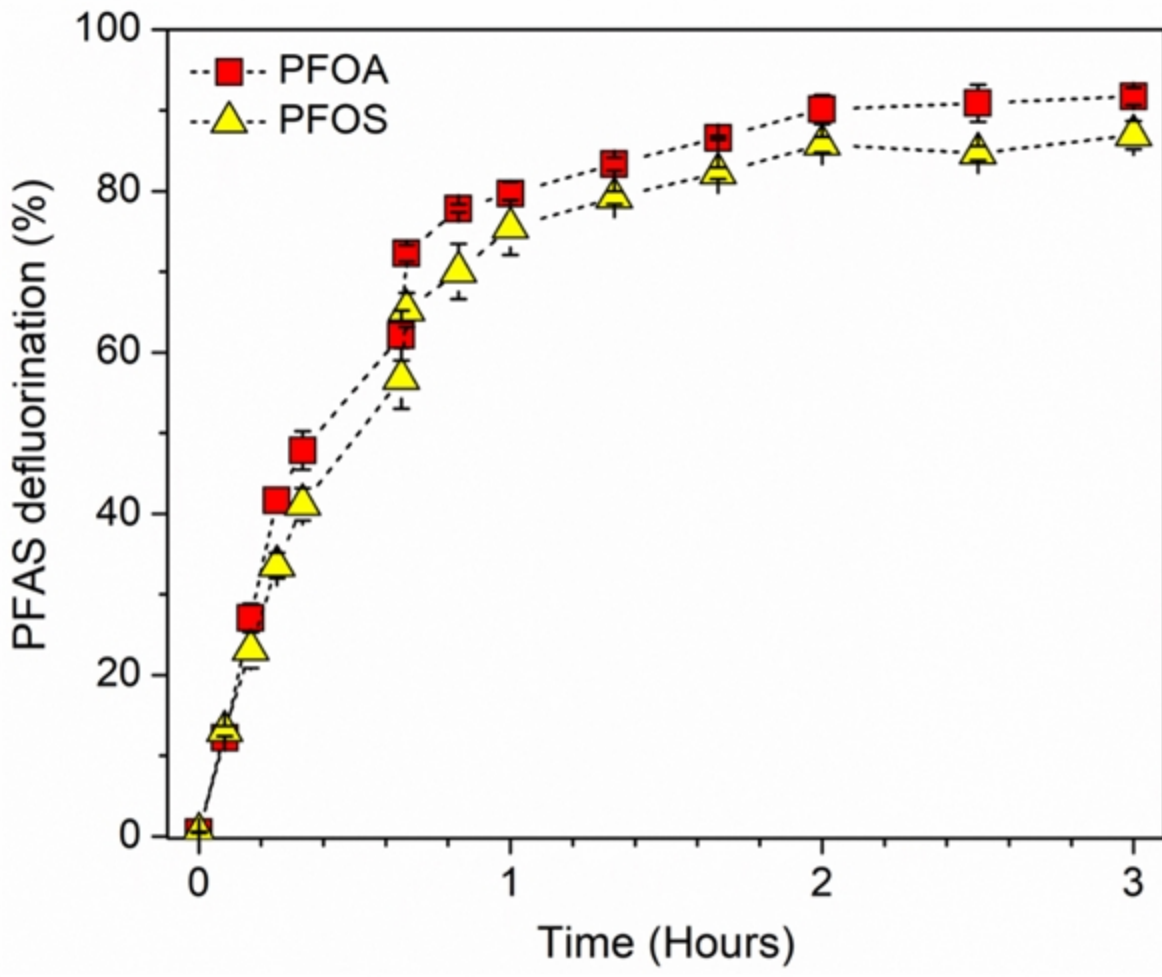


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Impact of electron donors on degradation and defluorination of PFOA and PFOS under the irradiation of UV light. [PFOA] or [PFOS] = 25 uM.

ADVANTAGES

- ▶ The UV photochemical system uses only water and common water constituents and does not need additional chemical amendments.
- ▶ The end products does not include any secondary contaminants.
- ▶ Faster reaction kinetics for degradation and defluorination of PFOA and PFOS.
- ▶ Lower energy consumption.
- ▶ Achieves more complete defluorination.

SUGGESTED USES

- ▶ Point of use, residential drinking water system
- ▶ Municipal water treatment
- ▶ Water recycling and reuse

STATE OF DEVELOPMENT

Currently, it is at the end of the experimental stage where more data are being collected to evaluate the efficacy of this technology for PFAS treatment under different water chemistry parameters and other types of contaminants.

RELATED TECHNOLOGY

Please see all [water treatment technologies at UCR](#)

