



Showcasing research from Professor Kim's laboratory, Nano Fusion Technology Research Group, Institute for Fiber Engineering (IFES), Interdisciplinary Cluster for Cutting Edge Research (ICCER), Shinshu University, Tokida 3-15-1, Ueda, Nagano 386-8567, Japan.

Water-based eco-friendly fabrication of physicochemically crosslinked and highly wettable PU-rich electrospun PU/PEO nanofiber composites with exceptional chemical and thermal stability

A simple water-mediated green approach was developed for the fabrication of PU-rich hydrophilic PU/PEO nanofiber composites with an excellent chemical and thermal stability. Owing to the environmentally friendly approaches, excellent stability, high wettability, good surface roughness and swelling behaviour, we believe that the developed PU/PEO nanofiber composites would play effective role in filtration sector, biomedical and energy fields.

Artist credit: Dr. Kei Watanabe.

As featured in:



See Kei Watanabe, Ick Soo Kim *et al.*, *Green Chem.*, 2023, **25**, 7556.