**Data of the manuscript:**

**Title: Hydrophobic PVDF-based electrospun nanofibrous membranes: design criteria fabrication and resistance to long-term hydrodynamic operation**

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**Data are available in 2 file types:**

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| **File extension** | **File name** | **Content** |
| \*.zip | 2. Images\_Montero-Rocca\_et\_al\_Wiley\_Journal\_of\_Applied\_Polymer\_Science\_2025 | WCA images in .jpg format.  Membrane SEM images in .tif format.  Membrane photographs in .jpg format. |
| \*.xlsx | 3. Data\_Montero-Rocca\_et\_al\_Wiley\_Journal\_of\_Applied\_Polymer\_Science\_2025 | Spreadsheets with the analytical results of the main manuscript. |

**Additional information**

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