



## Graphical Abstracts

## Editorial Note

### Professor Ahmad Fauzi Ismail: A remarkable individual, educator, mentor, and a dear friend

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## Research Paper

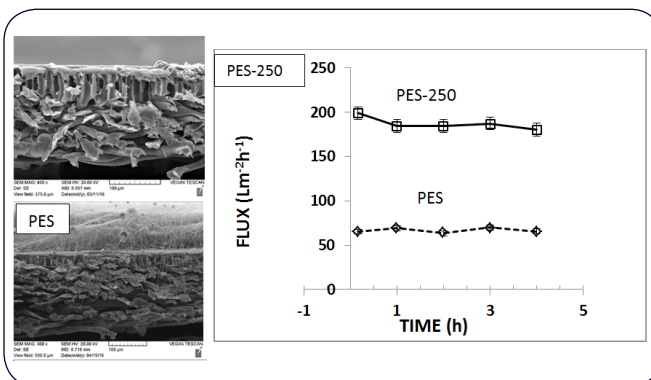
### Effect of Surface Modification with Electrospun Nanofibers on the Performance of an Ultrafiltration Membrane

Ladan Zoka <sup>1</sup>, Roberto M. Narbaitz <sup>1</sup>, Takeshi Matsuura <sup>2,\*</sup>

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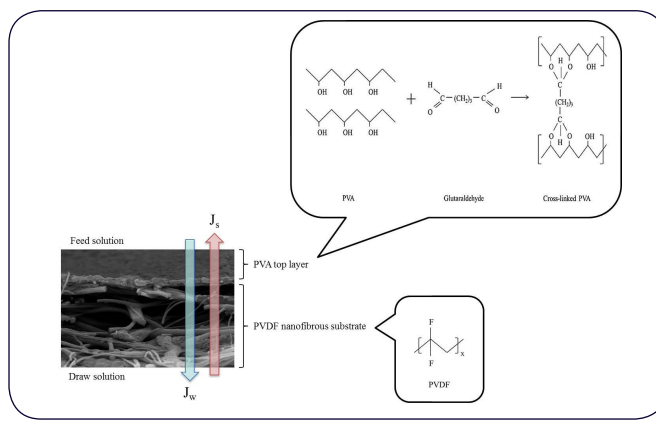
## Research Paper

### Physical Studies of Forward Osmosis Membranes Prepared by Cross-linking Polyvinyl Alcohol on Electrospun Nanofibers

Nurafidah Arsaf, Juhana Jaafar <sup>\*</sup>, Woei Jye Lau, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Farhana Aziz, Norhaniza Yusof, Wan Norharyati Wan Salleh, Ahmad Fauzi Ismail

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## Graphical Abstracts

**Plasticization Modeling in Cellulose Acetate/NaY Mixed Matrix Membranes**

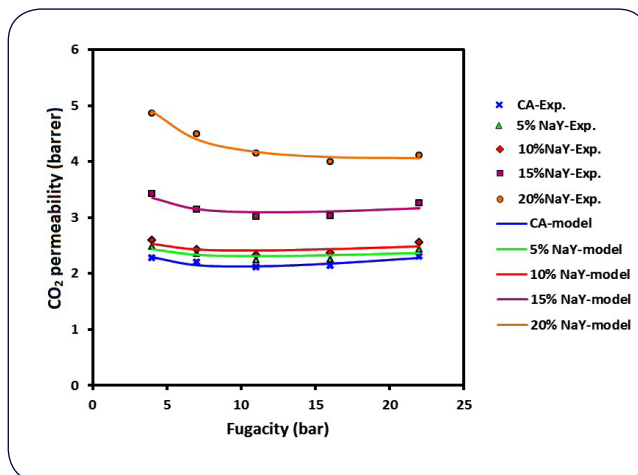
Einallah Khademian <sup>1</sup>, Mostafa Keshavarz Moraveji <sup>2</sup>, Mitra Dadvar <sup>2</sup>, Hamidreza Sanacepur <sup>3,\*</sup>

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**Enhancement of Antifouling of Ultrafiltration Polyethersulfone Membrane with Hybrid Mg(OH)<sub>2</sub>/Chitosan by Polymer Blending**

Umi Fathanah <sup>1,2</sup>, Izarul Machdar <sup>1,2,3,4</sup>, Medyan Riza <sup>1,2</sup>, Nasrul Arahan <sup>1,2,3,4,5,\*</sup>, Mukramah Yusuf <sup>2</sup>, Syawaliah Muchtar <sup>2</sup>, Muhammad Roil Bilad <sup>6</sup>, Nik Abdul Hadi Nordin <sup>6</sup>

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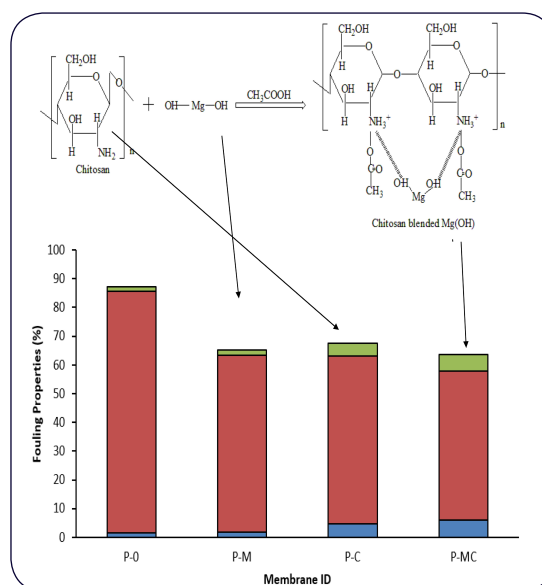
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**Effect of Hydrophilic-Hydrophilic Interactions between the Foulant and Membrane Surface on the Fouling Propensity of Different Foulants**

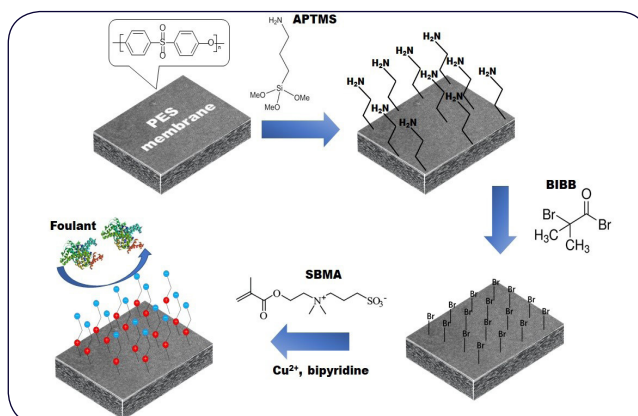
Saeid Rajabzadeh <sup>1</sup>, Hiroki Awaji <sup>1</sup>, Yuchen Sun <sup>1</sup>, Daisuke Saeki <sup>2,3</sup>, Noriaki Kato <sup>1</sup>, Hideto Matsuyama <sup>1,\*</sup>

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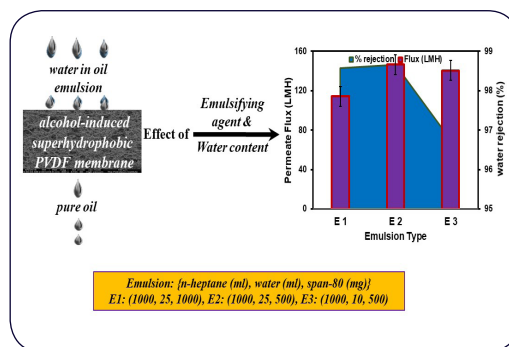
### Demulsification Performance of Superhydrophobic PVDF Membrane: A Parametric Study

Abdul Hai <sup>1</sup>, Munirasu Selvaraj <sup>1</sup>, Bharath Govindan <sup>1</sup>, Rambabu Krishnamoorthy <sup>1</sup>, Shadi W. Hasan <sup>1,2</sup>, Fawzi Banat <sup>1,2,\*</sup>

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Research Paper

### Performance and Characterizations of [EMIM][Tf<sub>2</sub>N] and Silica Direct Blending in Mixed Matrix Membrane for CO<sub>2</sub>/CH<sub>4</sub> Separation

Siti Nur Alwani Shafie <sup>1</sup>, Muhammad Amirul Mukmin Marzuki <sup>1</sup>, Nik Abdul Hadi Md Nordin <sup>1,\*</sup>, Muhammad Roil Bilad <sup>1</sup>, Norazlianie Sazali <sup>2</sup>, Noor Maizura Ismail <sup>3</sup>, Ahmad Fauzi Ismail <sup>4</sup>

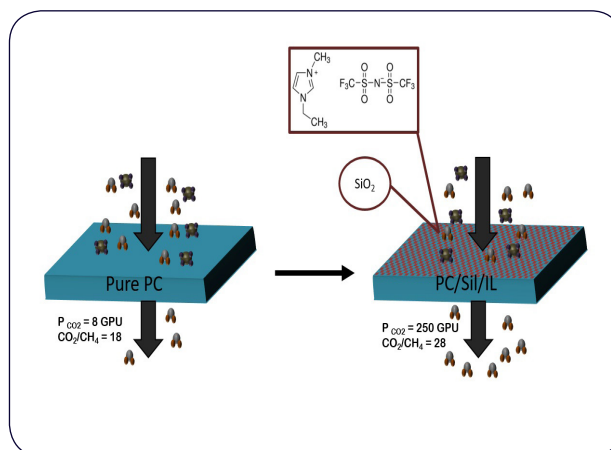
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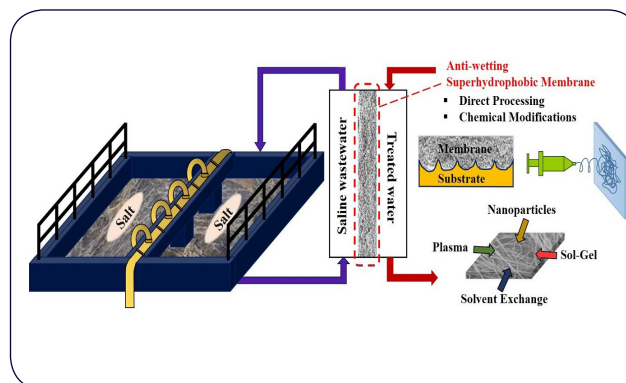
Research Paper

### Anti-Wetting Membrane Distillation to Treat High Salinity Wastewater: Review

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Review Paper

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### Novel Nanocomposite HNT-TiO<sub>2</sub>/PVDF Adsorptive Nanofiber Membranes for Arsenic (III) Removal

Ali Moslehyani<sup>1</sup>, Ramin Farnood<sup>1,\*</sup>, Shahram Tabe<sup>1,2</sup>, Takeshi Matsuura<sup>3</sup>, Ahmad Fauzi Ismail<sup>4</sup>

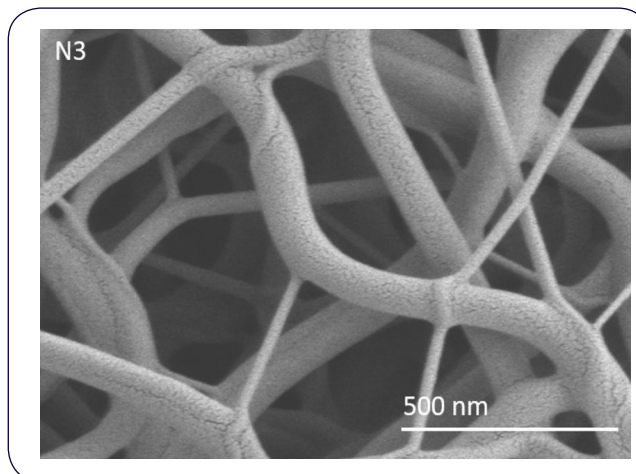
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Research Paper

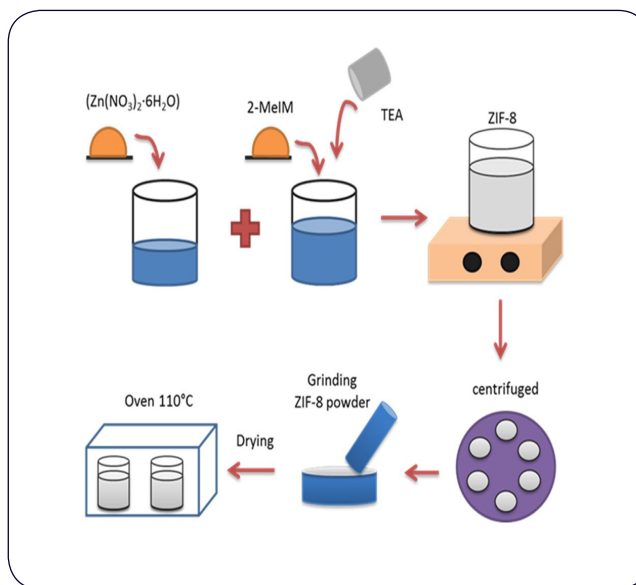
### Effect of Composite Multi-Walled Carbon Nanotube and Zeolitic Imidazolate Framework-8 on the Performance and Fouling of PVDF Membranes

Nurul Hazreen Wanie Hazmo<sup>1</sup>, Rosmawati Naim<sup>1,\*</sup>, Lau Woei Jye<sup>2</sup>, Ahmad Fauzi Ismail<sup>2</sup>

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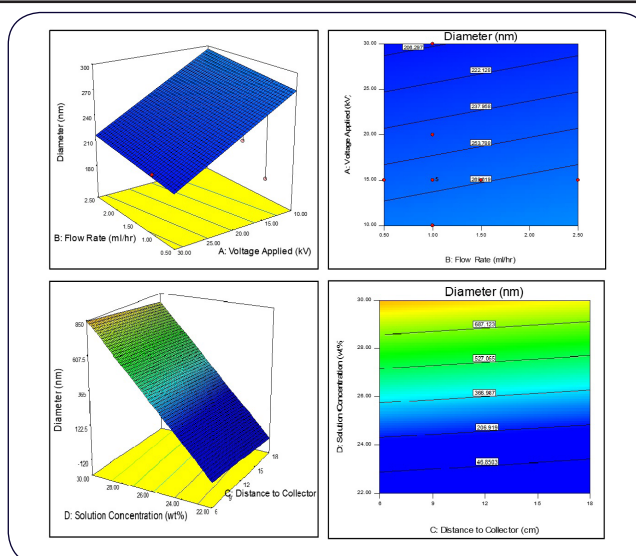
Research Paper

### Electrospinning Growth Parameters Dependent PVP: PC<sub>71</sub>BM Nanofiber Structure Characterizations and Modeling

Ismail Saad, Bablu Kumar Ghosh, Mohd Zuhir Hamzah, Wong Jen Hoe, Tan Jia Min, Nurmin Bolong<sup>\*</sup>

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Research Paper

## Graphical Abstracts

### High-Performance Hemodialysis Membrane: Influence of Polyethylene Glycol and Polyvinylpyrrolidone in the Polyethersulfone Membrane

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