# Article information:

Investigation of novel molecularly tunable thin-film nanocomposite nanofiltration hollow fiber membranes for boron removal - ScienceDirect  
<https://www.sciencedirect.com/science/article/pii/S0376738820314629?via%3Dihub=>

# Article summary:

1. Boron compounds in water can have serious environmental consequences and removing them is a hot topic in membrane technology.

2. Thin-film nanocomposite (TFN) hollow fibers with sulfocalix [4]arene particles have been developed for boron removal, providing additional free volume for water transport without compromising molecular sieve capability.

3. Various approaches have been explored to remove boron, but the improvement of efficiency is still a challenge due to the steric effect and limitations of current methods.

# Article rating:

Appears moderately imbalanced: The article provides some useful information, but is missing several important points or pieces of evidence that would be required to present the discussed topics in a balanced and reliable way. You are encouraged to seek a more balanced perspective on the presented issues by exploring the provided research topics and looking at different information sources.

# Article analysis:

作为一篇科学论文，该文章并没有明显的偏见或宣传内容。然而，它可能存在一些片面报道和缺失的考虑点。

首先，文章没有提及任何可能的负面影响或风险。例如，在使用这种新型薄膜纳滤技术时，是否会产生任何有害副产品？这些副产品是否会对环境或人类健康造成危害？此外，文章也没有探讨其他可能的方法来解决水中硼污染问题。

其次，文章只关注了如何有效地去除水中的硼元素，并未考虑到其他重要因素。例如，在实际应用中，这种新型薄膜纳滤技术是否具有经济可行性？是否能够扩大规模以满足大量需求？

最后，文章并未平等地呈现双方观点。虽然作者提供了一些数据来支持他们的主张，但他们并未探索任何反驳观点或证据。

综上所述，尽管该文章是一篇科学论文，并且没有明显的偏见或宣传内容，但仍存在一些片面报道和缺失的考虑点。此外，作者也没有平等地呈现双方观点或探索反驳观点或证据。

# Topics for further research:

* Negative effects or risks of the new membrane filtration technology
* Other possible methods to address boron contamination in water
* Economic feasibility and scalability of the new technology
* Consideration of other important factors beyond boron removal
* Exploration of opposing viewpoints or evidence
* Balanced presentation of both sides of the issue.

# Report location:

<https://www.fullpicture.app/item/b41b6885630a23d494c4230b61085627>