# Article information:

Self-healing polymeric materials: A review of recent developments-Web of Science 核心合集  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000256518200001>

# Article summary:

1. This article reviews the development of self-healing polymeric materials over the past 15 years.

2. It provides background on the fracture mechanics and traditional methods for repairing damage to these materials.

3. It also examines different methods for preparing and characterizing self-healing systems, assessing their efficiency, and exploring their applicability to composite materials and structural components.

# Article rating:

Appears well balanced: The article presents the information in a reliable and balanced way, without biases and prejudices. The claims made in the article are well supported and, where applicable, all sides of the argument are given opportunity to present their point of view. The article appears trustworthy and reliable.

# Article analysis:

The article is generally reliable and trustworthy in its reporting of recent developments in self-healing polymeric materials. The author provides a comprehensive overview of the topic, including background information on fracture mechanics and traditional repair methods, as well as an examination of different methods for preparing and characterizing self-healing systems, assessing their efficiency, and exploring their applicability to composite materials and structural components. The article is well-researched with citations from 79 sources, providing evidence for the claims made throughout the text. Additionally, it acknowledges potential challenges that may be faced in further research into this field.

The only potential bias present in this article is that it does not explore any counterarguments or alternative perspectives on the topic at hand. However, given that this is a review article summarizing recent developments rather than an argumentative piece, this lack of counterargument does not detract from its overall trustworthiness or reliability.

# Topics for further research:

* Self-healing polymers applications
* Self-healing polymers in composite materials
* Self-healing polymers for structural components
* Self-healing polymers efficiency assessment
* Self-healing polymers preparation methods
* Challenges in self-healing polymers research

# Report location:

<https://www.fullpicture.app/item/2522c6ca0982804368c6d5efefd90439>