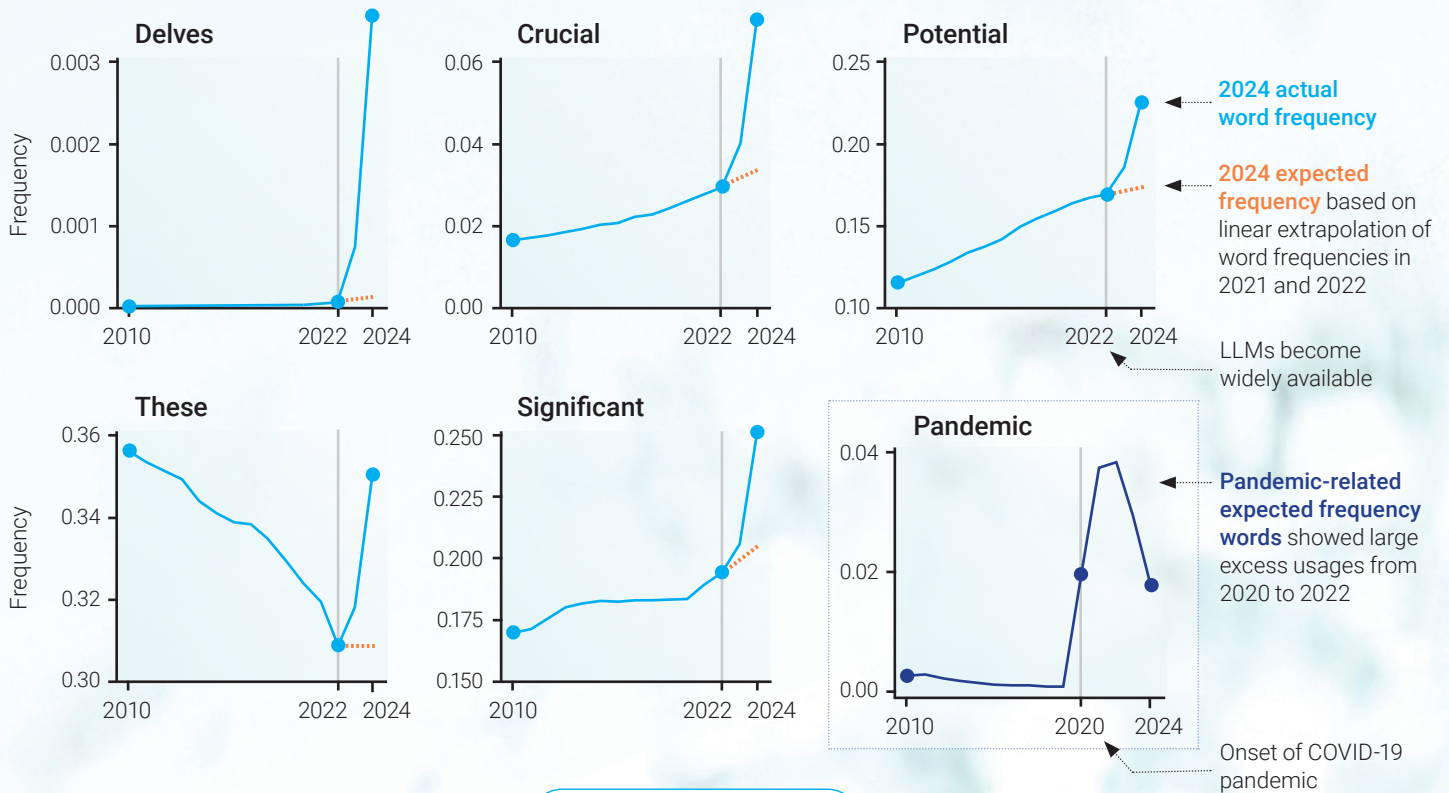


LLMs' Writing Style

A recent article in *Science Advances* reviewed vocabulary changes in more than 15 million PubMed abstracts over the past 15 years. The study found that after large language models (LLMs) became widely available in 2022, there was a significant increase in usage of several LLM-preferred style words, suggesting that at least 13.5% of 2024 PubMed abstracts were likely processed with LLMs.

Sample excess words from PubMed abstracts

Excess style words increased sharply after LLMs became available in 2022. The rapid increase was similar to the rise of pandemic-related content words during the COVID-19 pandemic, which had an unprecedented effect on biomedical publishing.



Excess words in PubMed abstracts have gone from almost all content words to almost all LLM-preferred style words.

*"Initially, we delve into the intricacies of [...], accentuating its indispensability in cellular physiology, the enzymatic labyrinth governing its flux and the pivotal [...] mechanisms."**

*Example from a 2023 PubMed abstract that illustrates LLM-preferred style words.

