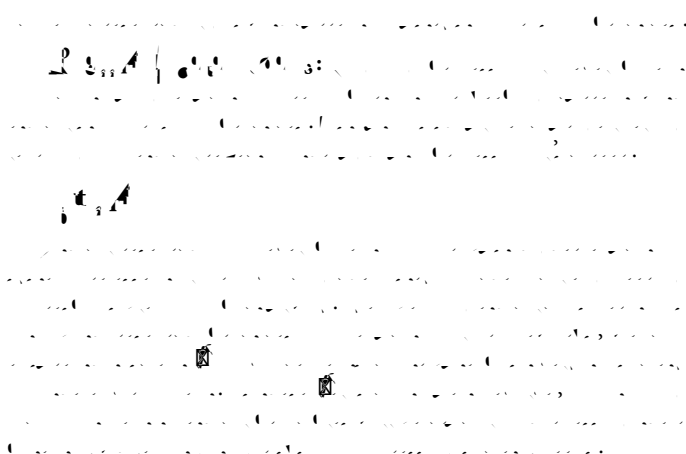


Abstract

Ethical research and development (R&D) and robust higher education are fundamental to advancing the fields of chemistry and chemical engineering in a responsible manner. As these disciplines evolve, integrating ethical considerations into both research practices and educational frameworks becomes crucial. Ethical R&D focuses on prioritizing safety, minimizing environmental impact, ensuring transparency, and promoting social responsibility, while



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