

ECERS 2025 abstract

Title: "Academic-Industry partnerships as a means to accelerate innovation"

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Abstract:

This paper explores the critical role and importance of academic-industry partnerships that can be harnessed to deliver effective innovations. The paper will explore both bilateral and multi-partner projects that have successfully bridged the gap between laboratory findings and industrial implementation.

Several cases are examined where data generated through academic partners has led to significant advancements in refractory applications. These applications span various industries and the synergy of diverse expertise and resources in these multi-partner projects is discussed in the context of accelerating innovation and enhanced research outcomes.

Key aspects of successful knowledge transfer are identified as well as challenges encountered in the process, such as intellectual property concerns, scale-up issues, and the need for long-term performance validation. Strategies to overcome these obstacles are proposed, emphasizing the importance of continued collaboration beyond the initial research phase.

Findings demonstrate that collaborative research not only generates data but also creates a conducive environment for its practical application.

In conclusion, this paper underscores the importance of fostering strong partnerships leading to more efficient, durable, and sustainable solutions for high-temperature industrial applications.

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Keywords: Refractory materials, collaborative research, basic refractory science, knowledge transfer, industrial applications, multi-partner projects,