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**Research Opportunities and Challenges in Materials Science & Engineering –
An Overview**

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Abstract

Materials have evolved from three dimensions to two dimensions to one dimension and subsequently to zero dimension. This evolution has been accompanied by efforts to close the gap between fundamental R&D and manufacturing. In this talk, case studies will be presented to illustrate the opportunities for research & development and the accompanying challenges. In particular, examples from the energy sector as well as the device sector will be discussed.

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