

Title: Design, synthesis, properties and applications of perovskite nanomaterials.

Arefeh Ahadi^a, Mahdieh Ghobadifard*, Sajjad Mohebbi*

^a*Department of Chemistry, Faculty of Sciences, University of Kurdistan, Sanandaj, Iran*

^{*}*E-mail: sajadmohebi@yahoo.com*

The structural formula ABO_3 describes perovskite oxide in general [1]. Perovskite oxides have garnered a lot of interest because of their high activity, abundance, and availability along with their optical and electrical properties, chemical stability, and lack of toxicity [2]. Perovskite oxides ability to act as catalysts in a variety of chemical processes is one of their most significant chemical characteristics. One of the advantages that significantly contributes to the catalytic capabilities of these compounds is their durability at high temperatures as well as the presence of A and B interchangeable cationic sites [3]. This presentation provides a broad overview of recent developments in perovskite oxide applications and synthesis methods.

Keywords: Perovskite oxides, Catalysts

References

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