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## Recent advances on catalytic osmium-free olefin syn- dihydroxylation

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application in syntheses of more sophisticated architectures and (iv) the strong oxidizing power of alternative metal centers must be controlled and modulated to be compatible with the milder experimental requirement of asymmetric version. The last results reported for manganese and very recently by Che and co-workers for non-heme iron should encourage scientist to explore and propose new asymmetric version on this *syn*-dihydroxylation to bring this catalytic chiral transformation much closer to practical applications.

In view of the results of the last 10 years we can only be enthusiastic about the future and the development of such oxidative reaction.

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**Keywords:** *syn*-dihydroxylation • 1,2-diols • *syn*-oxidation • metal-catalysis • asymmetric catalysis





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