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## **Complex Chemistry**

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### **Abstract**

Atomistic simulations are one of the pillars of modern science.

The last few decades this approach to science has seen great progress. This has been the result of advances both in hardware and in algorithms, however, the latter have played the dominant role. In the last few years, the power and scope of atomistic simulations have been further enhanced by machine learning methodologies.

In this talk we will briefly review these methods and show how very complex problems can be solved. We shall show how in chemistry atomistic simulations are changing our understanding of complex chemical processes.