Seminar #2.1 January 15, 2021, 11:30 am

ICIQ – Institut Català d'Investigació Química

Breaking Linear-Scaling relationships in Heterogeneous Catalysis

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Activity of catalytic materials has been studied by theoretical methods clarifying mechanistic aspects. In many cases, catalyst optimization is limited by the Linear-Scaling Relationships that link the properties of different intermediates on surfaces and end up in the activity volcanoes. Over the last years we have been gathering increasing evidence that complexity at different levels can act eliminating these dependencies and giving more degrees of freedom to the catalytic preparation ^[1].

[1] Pérez-Ramírez, J.; López, N. Strategies to break linear scaling relationships Nat. Catal. 2019, 2019, 971–976, DOI: 10.1038/s41929-019-0376-6

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