

The Chemist's Interactions

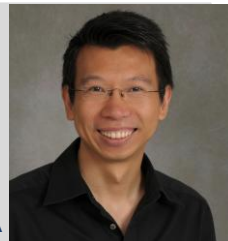
Seminars @ the Chemistry Department

Thursday, 28th May 2026

Room
G24
h 14.30

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Excited-State Catalysis in Organic Synthesis

The development of efficient strategies for the synthesis and diversification of complex molecules remains a central challenge in organic chemistry. The Ngai laboratory seeks to address this challenge by developing new approaches to build and modify molecules, with the long-term vision of turning light into medicine. Our research focuses on the use of visible-light-driven excited-state catalysis to transiently reprogram molecular reactivity and enable transformations that are difficult to achieve under conventional ground-state conditions. By combining photochemistry, radical reactivity, and transition-metal catalysis, we aim to establish general platforms for selective bond construction and late-stage functionalization of structurally complex molecules. These efforts include the development of new catalytic strategies for site-selective modification, carbon–heteroatom bond formation, and the introduction of functional groups relevant to medicinal, agrochemical, and materials chemistry. This seminar will highlight recent advances from our laboratory illustrating how excited-state catalysis can enable new strategies for molecular functionalization and provide streamlined access to bioactive molecular architectures.



The event will be streamed on
MS Teams for external participants!

For registrations: seminari.dipchi@unimi.it



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