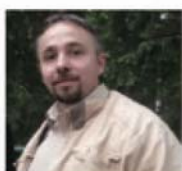


ITbM-GTR Seminar



Dr. Tomislav Friščić

Professor, McGill University
Montreal, Canada

Mechanochemistry: Beyond the Magic

Date: Wednesday, Oct 23th

Time: 16:30~18:00

Venue: Lecture room, ITbM

Language: English



This presentation will outline the recent work of our group, and others, in unravelling the mechanistic aspects of mechanochemistry, address details of reaction kinetics and mechanisms revealed by recently emerged but broadly popular methods for real-time and in situ reaction monitoring, and interpret them in the wider context of reaction thermodynamics and energetics.[4] At the same time, this will provide an opportunity to highlight exciting applications of mechanochemistry in making new materials, including nanosystems, metal-organic frameworks (MOFs), complex molecular targets, as well as active pharmaceutical ingredients (APIs).[5]

[1] J.-L. Do, T. Friščić, ACS Cent. Sci. 2017, 3, 13. [2] K. Kubota, T. Seo, K. Koide, Y. Hasegawa, H. Ito, Nature Commun. 2019, 10:111. [3] Y. X. Shi, K. Xu, J. K. Clegg, R. Ganguly, H. Hirao, T. Friščić, F. García, Angew. Chem. Int. Ed. 2016, 55, 12736. [4] T. Friščić, I. Halasz, P. J. Beldon, A. M. Belenguer, F. Adams, S. A. J. Kimber, V. Honkimäki, R. E. Dinnebier, Nature Chem. 2013, 5:66. [5] D. Tan, L. Loots, T. Friščić, Chem. Commun. 2016, 52, 7760.

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