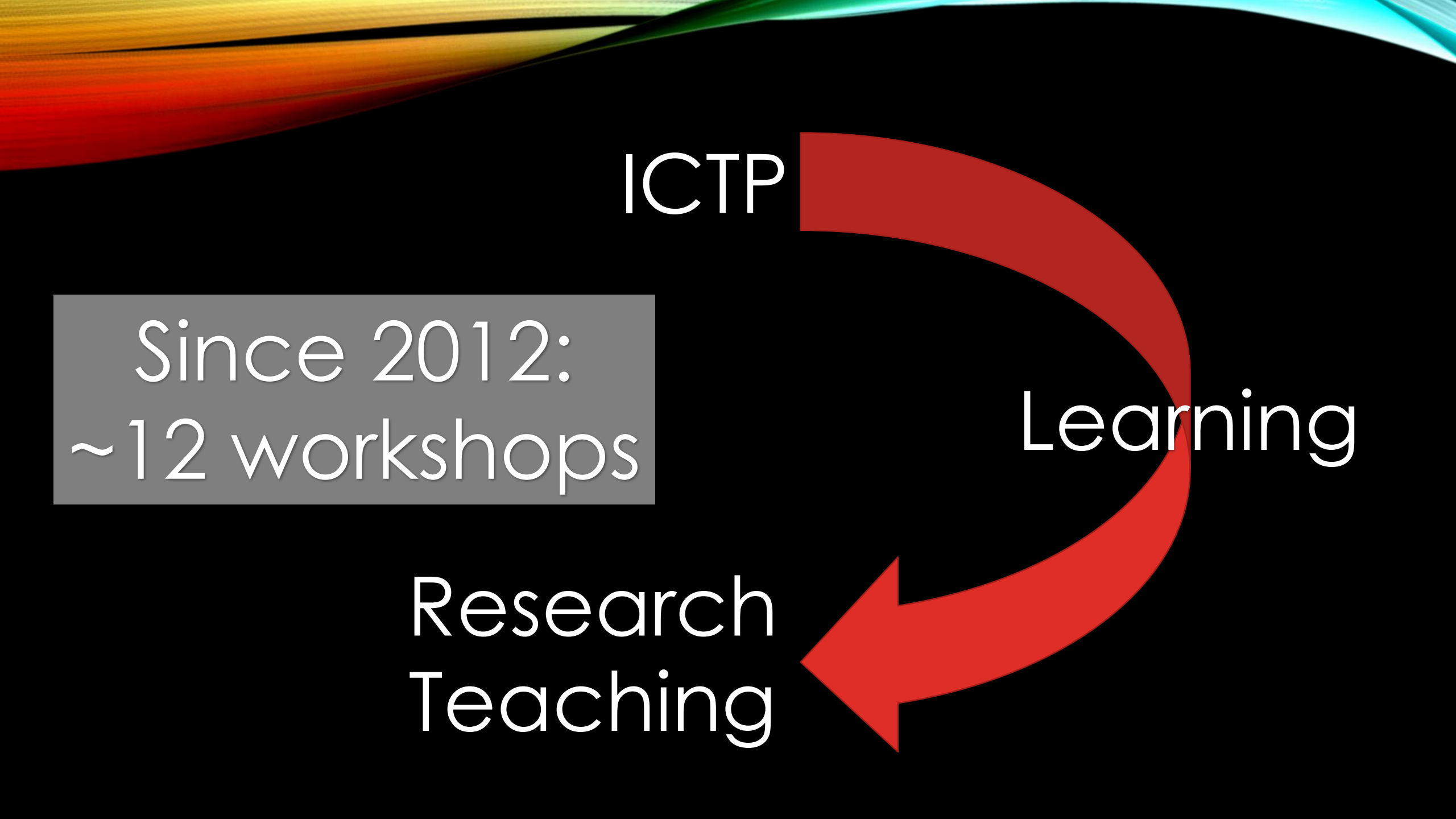
FABIO PICHIERRI

Background: chemistry (Univ. Trieste)
Affiliation: Tohoku University (Japan)
Research: computational chemistry
Teaching: applied chemistry

[Source: Wikipedia]



Since 2012:
~12 workshops

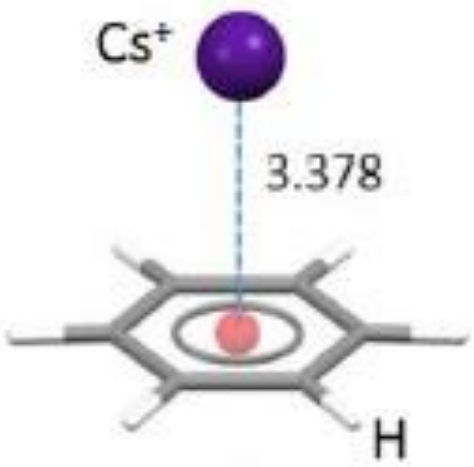
(research papers)

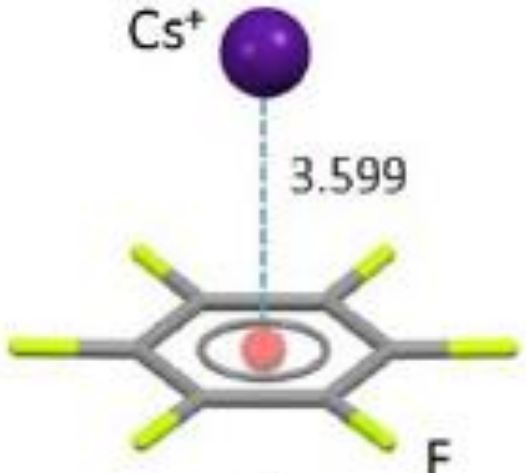
Theoretical Chemistry Accounts (2018) 137:118
https://doi.org/10.1007/s00214-018-2298-9

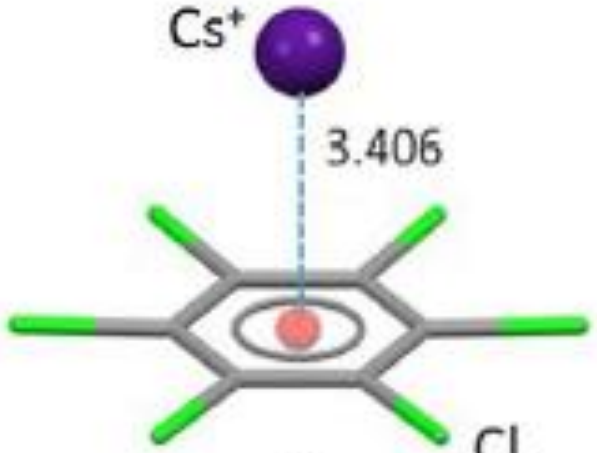
REGULAR ARTICLE

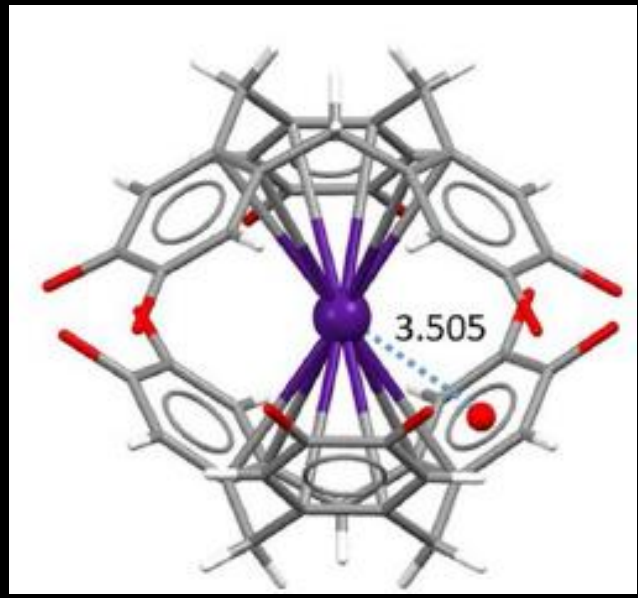
Cs^+–π interactions and the design of macrocycles for the capture of environmental radiocesium (Cs-137): DFT, QTAIM, and CSD studies

Fabio Pichierri[1]









Chemical Physics Letters 612 (2014) 198–202

(research papers)

Contents lists available at ScienceDirect

Chemical Physics Letters

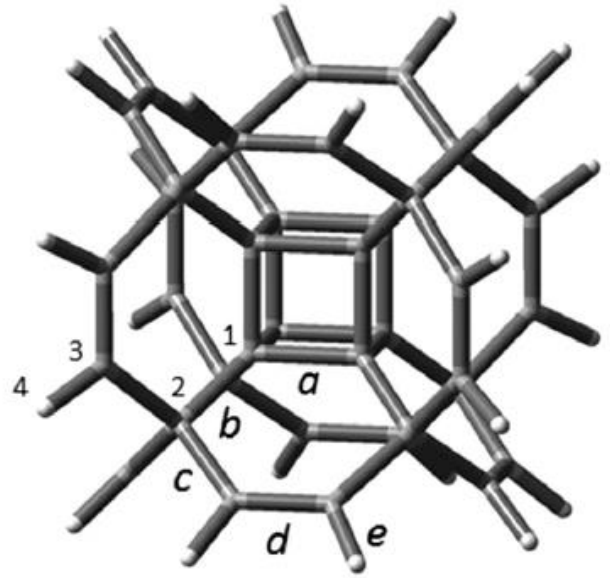
journal homepage: www.elsevier.com/locate/cplett

Hypercubane: DFT-based prediction of an O_h-symmetric double-shell hydrocarbon

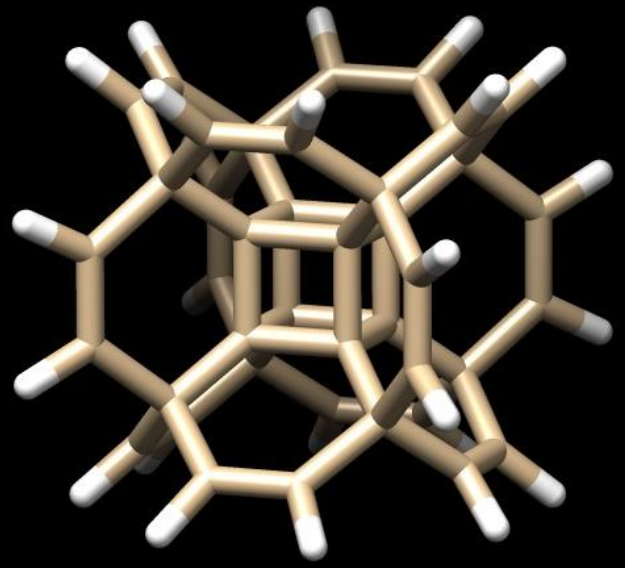
Fabio Pichierri

Department of Applied Chemistry, Graduate School of Engineering, Tohoku University, Aoba-yama 6-6-07, Sendai 980-8579, Japan

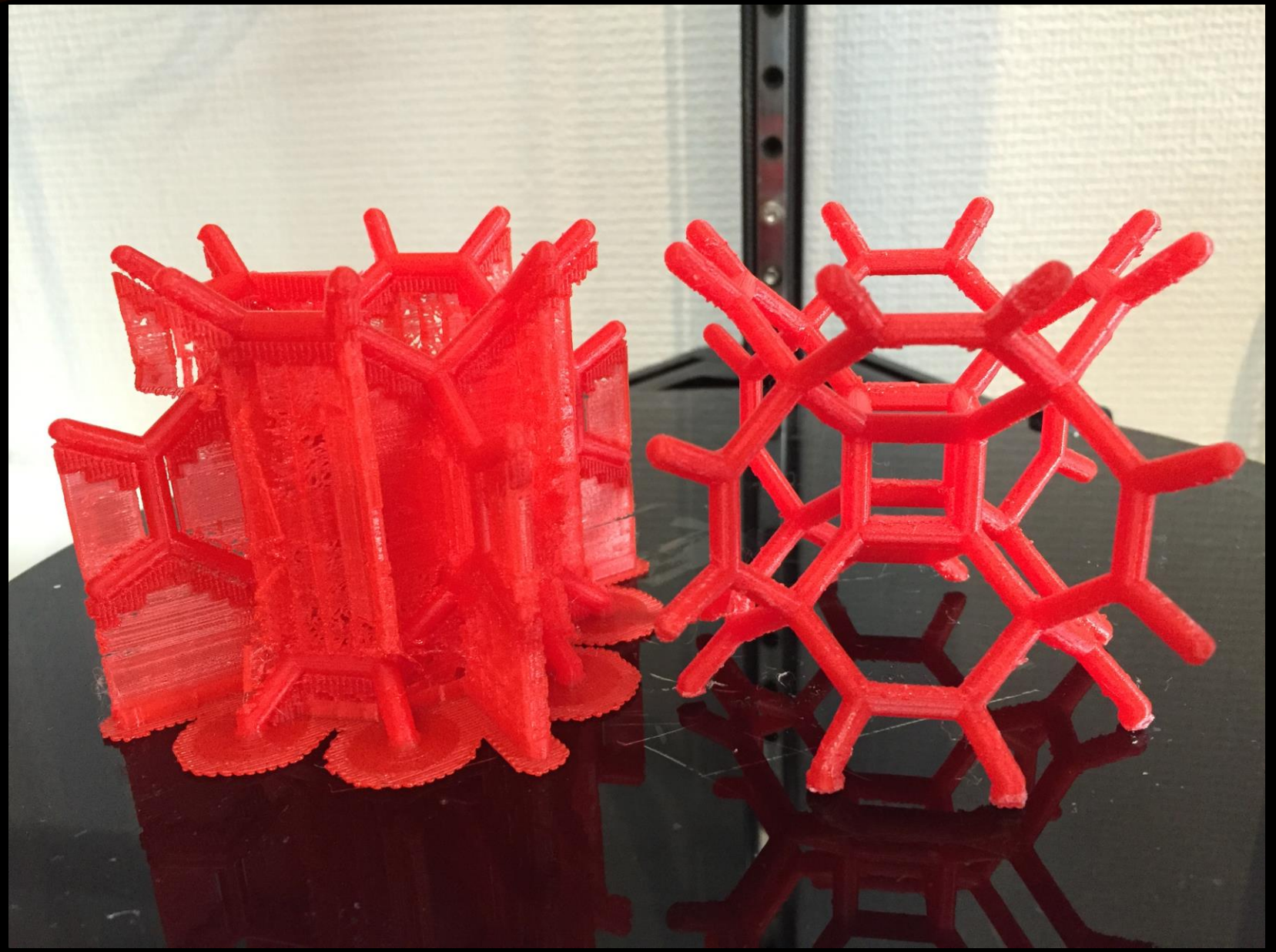
Although the synthesis of hypercubane appears to be a formidable task, its achievement would open the door to a new family of double-shell hydrocarbons.



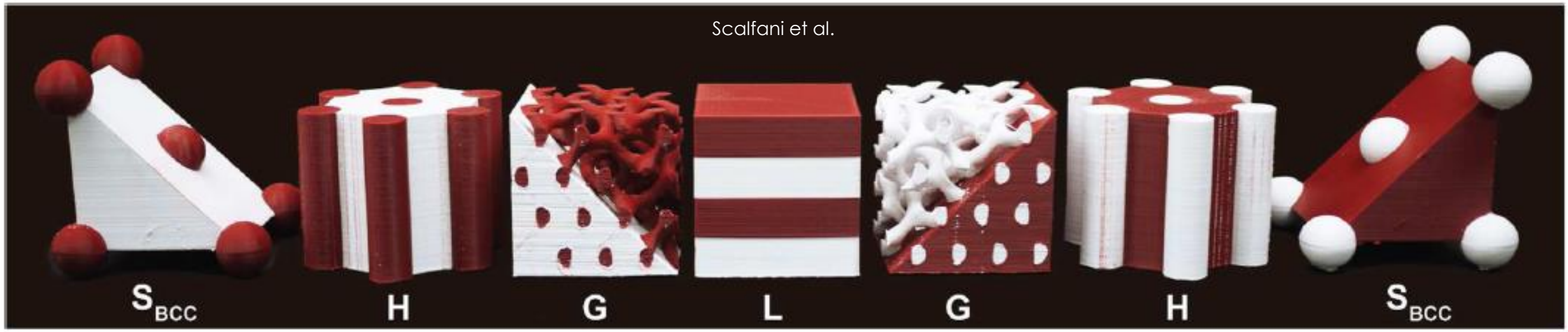
3D printed models →

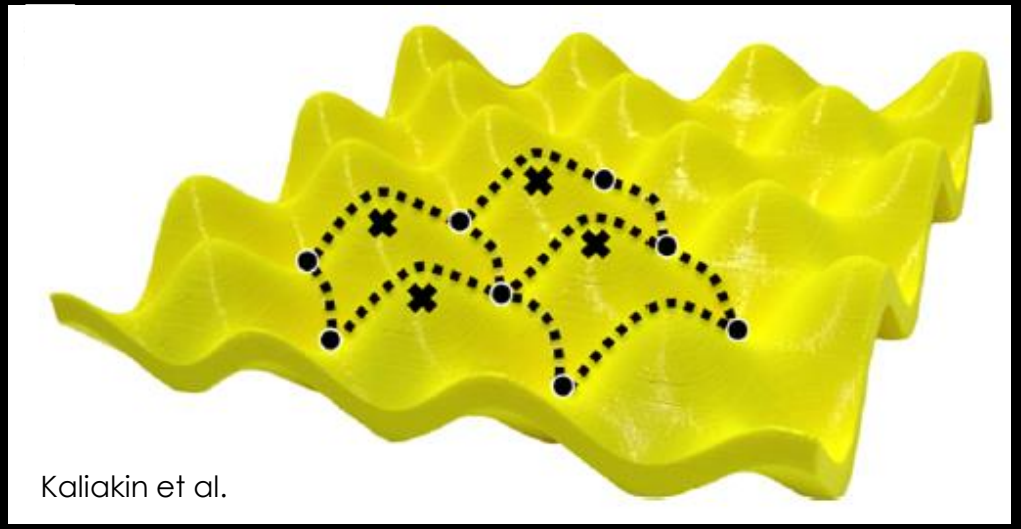


Molecular drawing



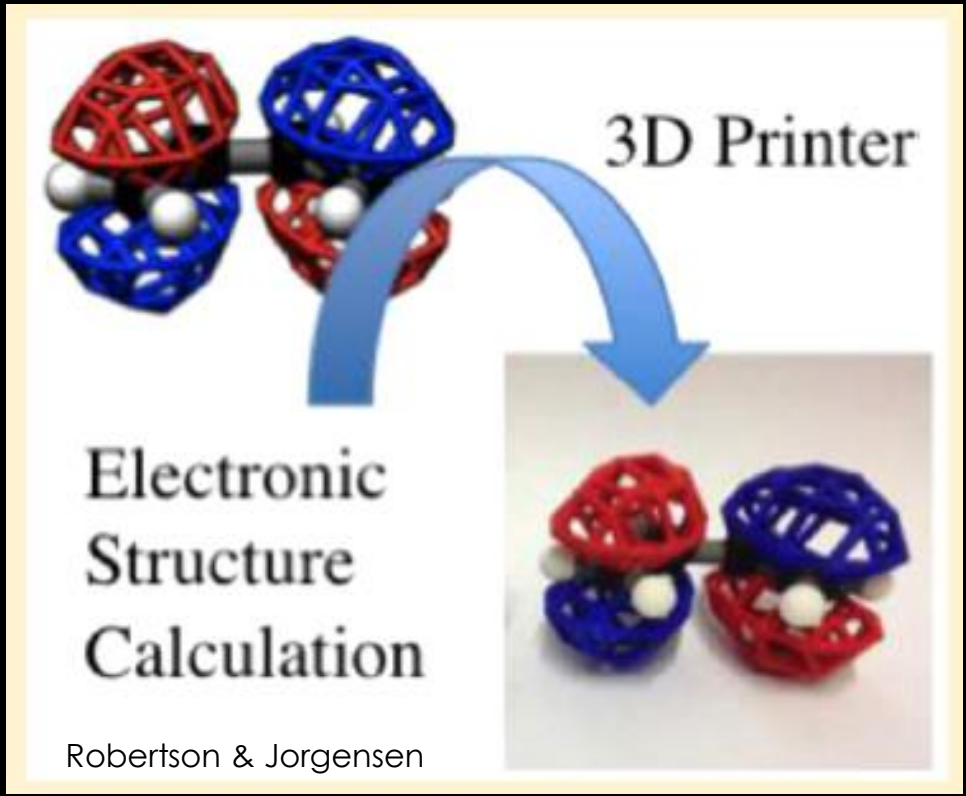
CHEMICAL APPLICATIONS OF 3D PRINTING

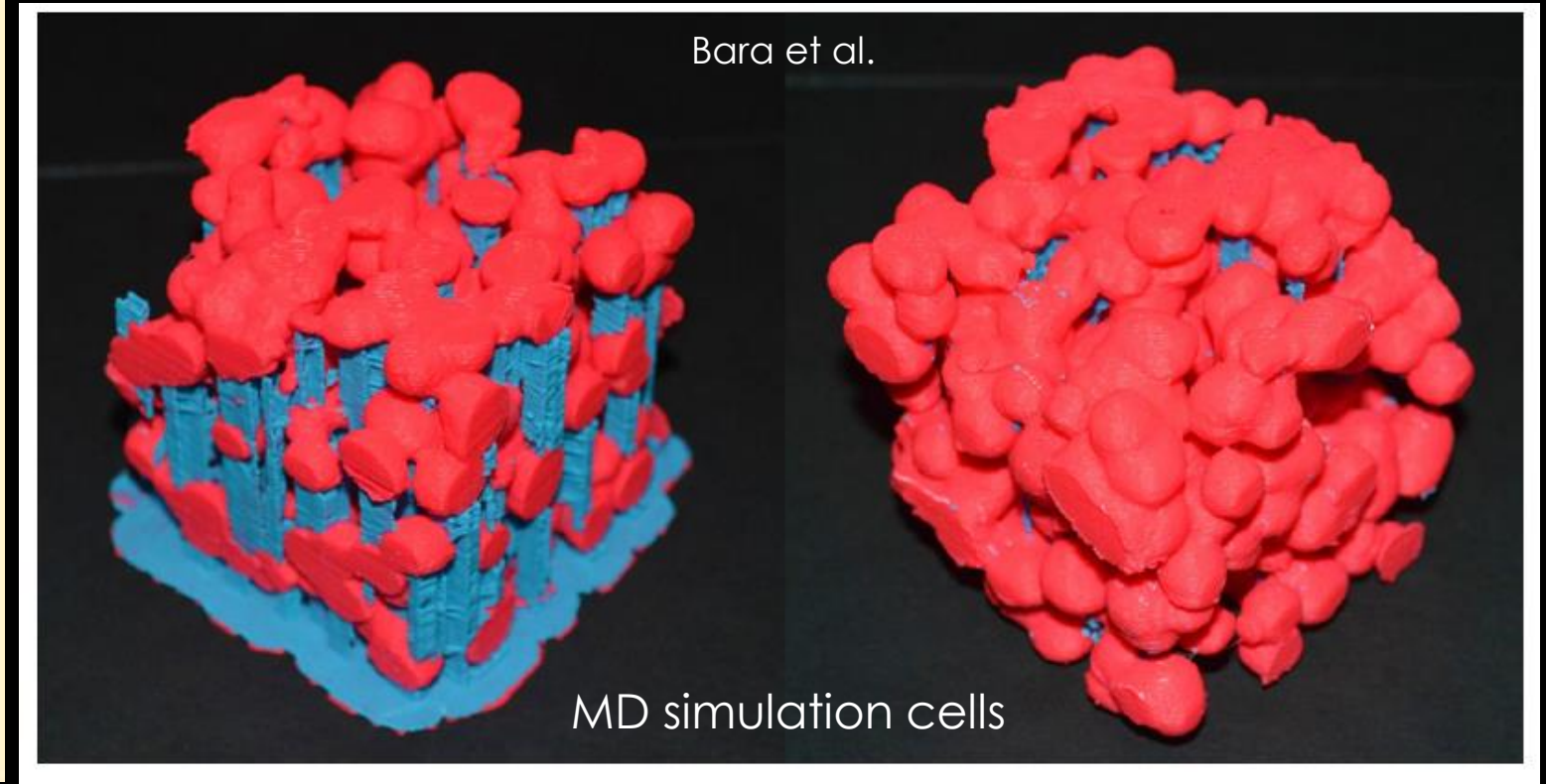




Sources: Journal of Chemical Education & Electrochem. Commun.

3D PRINTING AND COMPUTATIONAL CHEMISTRY





Sources: Journal of Chemical Education & Educ. Chem. Eng.

SOME IDEAS FOR 3D PRINTING

- Complex molecular structures with movable parts
- Reactionware: labware in which chemical reactions take place
- Models of chemical and biochemical reactors for teaching & research