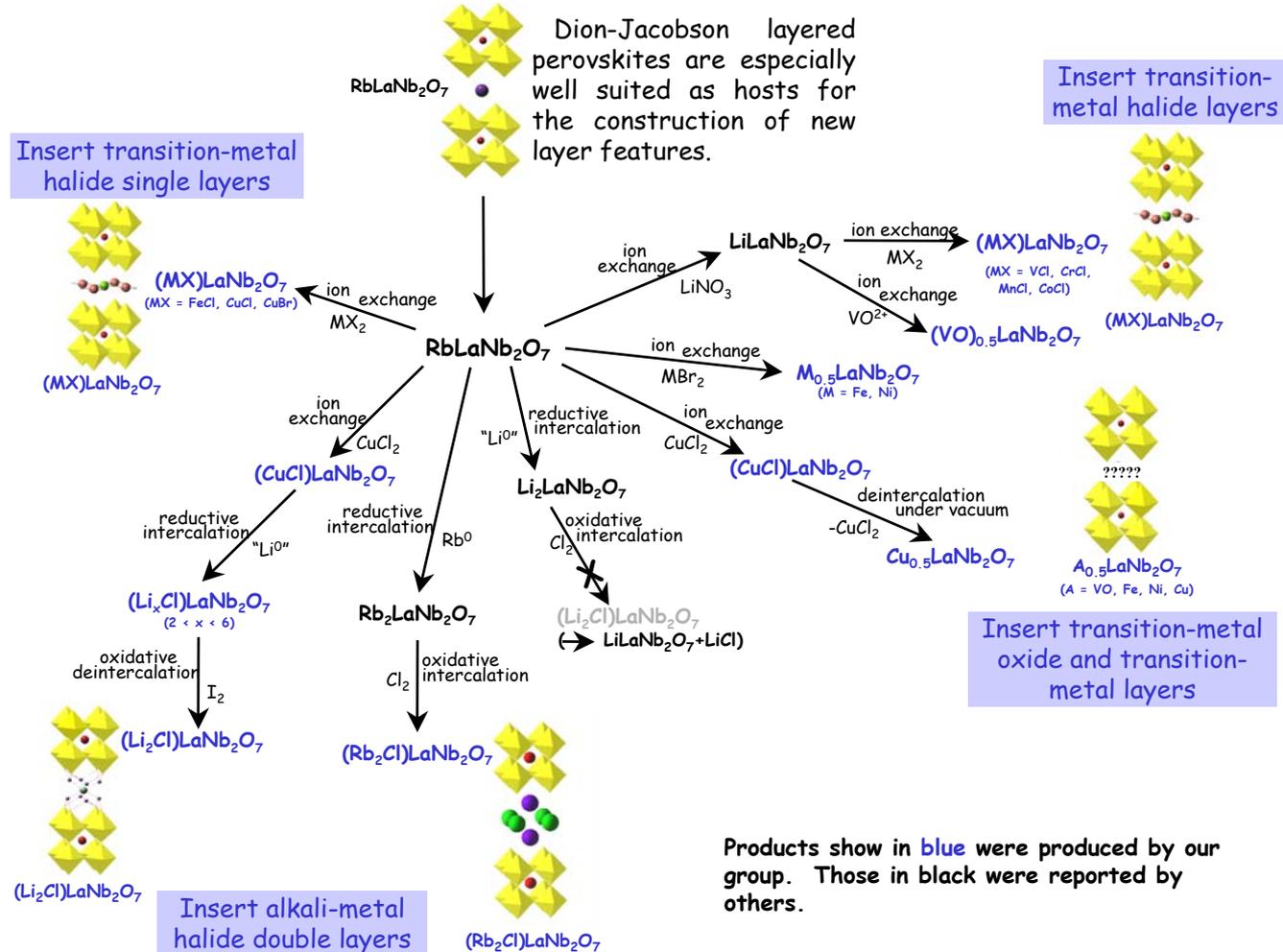


Topotactic Routes to New Layered Perovskites

John B. Wiley, University of New Orleans, **DMR-0309972**

Topotactic reaction strategies allow one to direct a series of structural features within a layered host. Such methodologies can lead to rational approaches for the synthesis of new materials with specific properties.



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Outreach: Typically two French students, either undergraduate or Master's level, participate in this program every year. The students work in the PI's lab on the synthesis and characterization of new perovskites. This training is a formal part of their respective degree programs. Often their efforts have been quite productive, leading to co-authorship on papers or on presentations given by other group members at national meetings (ACS or MRS). This year, for example, Carole Barrat was added as coauthor on a poster given by the PI at the Spring ACS meeting; her synthesis of a new vanadyl perovskite will also be written up for publication in the near future.

Education: Two French students (Carole Barrat, IUT Poitiers) and Guillaume Le Roux, IUT Lannion) and five graduate students (Liliana Viciu, Xiao Zhang, Doinita Neiner, Karachie Ward and Elisha Josepha), have contributed to this work. Viciu received her Ph.D. this Spring and will postdoc at Princeton University with Bob Cava.



Two French students participated in this program in the Spring of 2004: Carole Barrat (left, IUT Poitiers) and Guillaume Le Roux (IUT Lannion).