

Bringing Chemistry to Life podcast series

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Season 3: The 2021 C&EN's Talented 12 Episode 4: Perovskites and the future of science in Mexico



Episode abstract

Perovskites are somewhat ambiguous compounds defined by general chemical formula and their three-dimensional structure. Yet their potential is huge; they represent the next generation of materials to harness the relationship between energy and light.

Like perovskites, the scientific landscape in Mexico is also a bit ambiguous. The lack of history and of an established scientific infrastructure make it hard to do research in the country. However, there are promising, yet still isolated, success stories and spring of new talent, such as Diego Solis-Ibarra, that suggest a new dawn for Mexican science.

The conversation with Diego is an amazing story of a brave and talented young man, with a deep connection to his roots and the determination to embrace challenges not many would even consider. He traded a relatively easy scientific career abroad for being the steward of the growing scientific culture in Mexico. His research is as punchy and disruptive as his personality. We learn about the amazing technology of perovskites, while discovering a great scientist's profile.

About our guest

Diego Solis-Ibarra, PhD

Associate Professor, Instituto de Investigaciones en Materiales (UNAM)

Diego's group site: <https://www.iim.unam.mx/diegosolis/index.html>

C&EN Talented 12 profile of Diego: <https://cen.acs.org/materials/energy-storage/Diego-Solis-Ibarra/99/i30>

Recent Publications from Diego:

- [A Direct Bandgap Copper–Antimony Halide Perovskite](#)
- [Thousand-Fold Conductivity Increase in 2D Perovskites by Polydiacetylene Incorporation and Doping](#)
- [On the True Composition of Mixed-Cation Perovskite Films](#)
- [Two-Dimensional Halide Perovskites in Solar Cells: 2D or not 2D?](#)
- [The Emergence of Halide Layered Double Perovskites](#)
- [Sterically Controlled Mechanochemistry Under Hydrostatic Pressure](#)

Diego's Content Recommendations:

- [Amador: In Which a Father Addresses His Son on Questions of Ethics-That Is, the Options and Values of Freedom-And Attempts to Show Him How to Have a Good Life](#) (A book by Fernando Savater)
- [The World Triathlon Podcast](#) (A podcast featuring triathletes and coaches)
- [One Hundred Years of Solitude](#) (A book by Gabriel Garcia Marquez)
- [The Ironwar- 1989 Ironman- Original Footage](#) (The story of athletes at the 1989 Ironman World Championship)
- ["Surely, You're Joking, Mr. Feynman!": Adventures of a Curious Character](#) (A book by Richard P. Feynman)
- [Beyond Human](#) (A documentary on the Collins Cup triathlon)

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