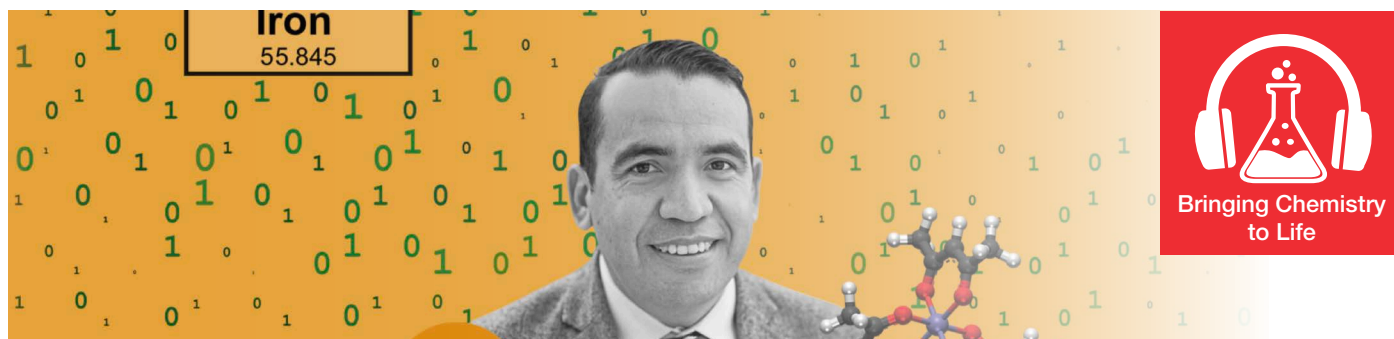


Bringing Chemistry to Life podcast series

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Season 2: The 2020 C&EN's Talented 12 Episode 1: Chemistry: a modern American Dream



Episode abstract

There are exciting stories of life-changing experiences thanks to science, or through science. And then there is Osvaldo's story. Osvaldo Gutierrez, now assistant professor of chemistry and biochemistry at University of Maryland but moving soon to Texas A&M, could not really foresee his future as an award-winning chemist when, as a child, he left Mexico to move to the United States.

This episode tells an inspiring story of personal development through hard work, perseverance, and talent – a real and modern American dream. But it's not just a tale of a kid from humble origins becoming an accomplished chemist and a role model for the younger generations, this is also a story of scientific excellence. Paolo and Osvaldo discuss the present and future of catalysis, how base metals such as iron could displace precious metals but also offer novel options for synthetic organic chemists and how combining computational and experimental chemistry is a promising way to gain the fundamental understanding necessary to introduce some much-needed innovations in modern organic synthesis.

About our guest

Osvaldo Gutierrez, PhD

Assistant Professor, Department of Chemistry & Biochemistry, University of Maryland

Osvaldo's group site::

<https://www.gutierrezlabs.com/>

C&EN Talented 12 profile of Osvaldo:

<https://cen.acs.org/physical-chemistry/computational-chemistry/Osvaldo-Gutierrez/98/i31>

Recent Publications from Osvaldo:

- [General Method for Enantioselective Three-Component Carboarylation of Alkenes Enabled by Visible-Light Dual Photoredox/Nickel Catalysis](#)
- [Fe-catalyzed three-component dicarbofunctionalization of unactivated alkenes with alkyl halides and Grignard reagents](#)
- [On the Nature of C\(sp³\)–C\(sp²\) Bond Formation in Nickel Catalyzed Tertiary Radical Cross-Couplings: A Case Study of Ni/Photoredox Catalytic Cross-Coupling of Alkyl Radicals and Aryl Halides](#)
- [Transition-metal-free chemo- and regioselective vinylation of azaallyls](#)

Osvaldo's Content Recommendations:

- [Juicy](#) (a music video from Notorious B.I.G.)
- [Coreano Vlogs](#) (a YouTube video log by a Spanish-language Korean YouTuber)
- [Cien Anos de soledad / One Hundred Years of Solitude](#) (a novel by Gabriel Garc a Marquez)
- [Sacramento Kings](#) (the site of Osvaldo's favorite NBA team)

This podcast series is available via the following links



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