

Bringing Chemistry to Life podcast series

ThermoFisher
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Season 3: The 2021 C&EN's Talented 12

Episode 3: Imagination and the chemistry of the things around us



Episode abstract

Alaaeddin is someone you can spend entire afternoons chatting with about life, experiences, and of course, science. His studies and career in chemistry brought him around the world, living, working, and studying in several countries, accumulating life learnings that made him the person and the scientist he is today.

Dr. Alsbaiee has worked in an industrial environment since his PhD and is not afraid of new challenges. His polymer chemistry background allowed him to work on some incredible applications, such as the materials of which turbine blades are made, or sophisticated methods to manufacture electronic microchips.

This is a textbook Bringing Chemistry to Life conversation, where you can see the person in their science, you'll learn about Chemical Mechanical Planarization (CMP), polymer chemistry, and their role in our everyday life as well as the importance of imagination in chemical research.

About our guest

Alaaeddin Alsbaiee, PhD

Project Leader and Research Scientist, DuPont

Alaaeddin's sites: <https://www.dupont.com/electronic-materials/semiconductor-fabrication-and-packaging-materials.html>

C&EN Talented 12 profile of Alaaeddin: <https://cen.acs.org/materials/Alaaeddin-Alsbaiee/99/i30>

Recent Publications from Alaaeddin:

- [Rapid removal of organic micropollutants from water by a porous \$\beta\$ -cyclodextrin polymer](#)
- [\$\beta\$ -Cyclodextrin Polymer Network Sequesters Perfluorooctanoic Acid at Environmentally Relevant Concentrations](#)
- [Tetraarylborate polymer networks as single-ion conducting solid electrolytes](#)
- [Selective and fast recovery of rare earth elements from industrial wastewater by porous \$\beta\$ -cyclodextrin and magnetic \$\beta\$ -cyclodextrin polymers](#)
- [Efficient PFAS Removal by Amine-Functionalized Sorbents: Critical Review of the Current Literature](#)

Hans' Content Recommendations:

- [Strengths finder](#) (A book by Tom Rath)
- [A Beautiful Mind](#) (A movie based on the book by Sylvia Nasar & Akiva Goldsman)
- [The Brilliant Zewail](#) (A book by Lotfia M. El-Nadi)
- [House of Cards](#) (A Netflix series)
- [Magic Travel](#) (One of Alaaeddin's favorite musical pieces)

This podcast series is available via the following links



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