

Bringing Chemistry to Life

a podcast series

Season 5, Episode 13

Plastic electronics, digitized materials, and other sustainable solutions



Episode Notes

Join us for this look into materials chemistry, developed under the guiding principles of sustainability and a systems approach.

Dr. Zlatka Stoeva, Co-founder and Managing Director of DZP Technologies, discovered her love of chemistry out of boredom as a child. She then traveled to unknown lands to master her science and discover the value of mentors while doing amazing work on lithium-ion battery chemistry. A stint in the technology transfer office at Cambridge showed her how fundamental research can be translated into real-world solutions that can change lives, and this inspired her to start her own company.

In providing research services and developing IP to help companies address market needs using unique materials, Stoeva and her colleagues approach problems with a systems mindset that is common in engineering, but not always chemistry. We hear about their work in “plastic electronics” that leverage biological materials and consider sustainability aspects while delivering results. We also hear about their exciting work using graphene to produce digitized materials that can code information about how they’re made and their interactions with the environment.

Check out this great episode that balances a wonderful personal story, amazing science, and great bits of advice to guide your science and career development!

About Our Guest

Zlatka Stoeva, PhD

Managing Director
DZP Technologies Limited

Zlatka’s Recent Publications:

- [Monitoring state of charge and volume expansion in lithium-ion batteries: an approach using surface mounted thin-film graphene sensors](#)
- [Structural, chemical and electrical characterisation of conductive graphene-polymer composite films](#)
- [Photonic Curing of Low-Cost Aqueous Silver Flake Inks for Printed Conductors with Increased Yield](#)

Zlatka’s Content Recommendations:

- [Planet Earth](#), a documentary series by Sir David Attenborough about our beautiful planet and why we have to look after it.
- [Lessons in Chemistry](#), a novel by Bonnie Garmus about a female scientist trying to establish a research career.
- [Surrounded by Idiots](#), a guide to human behavior by Thomas Erikson.
- [Valja Balkanska- Izlel e Delio hajdutin](#), a Bulgarian folk song prayer and reflection

This podcast series is available via the following links

