

Stefanie Sydlik

Associate Professor at Carnegie Mellon University

Pittsburgh, PA, US

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Biography

Stefanie Sydlik's research interests include polymer science, materials chemistry, biomaterials and sustainable materials. The Sydlik group synthesizes novel polymers and materials via the principles of molecular design. Drawing on her diverse background in materials, the Sydlik group is uniquely situated at the interface of chemistry, biomedical engineering and materials science. Some sample research areas from the group include: 1) transforming graphene oxide into a cell-instructive, biodegradable scaffold for bone regeneration; 2) creating sustainable, degradable composite materials with recycled plastics; and 3) addressing the public health crisis of lead by developing materials to limit and remediate exposure.

Industry Expertise

Chemicals

Areas of Expertise

Materials Chemistry, Polymer Science, Biomaterials, Graphene, Stem Cells, Electronic Materials, Tissue Regeneration, Cell-Instructive Material

Education

Massachusetts Institute of Technology

Ph.D. Organic Chemistry

Carnegie Mellon University

B.S. Chemistry and Polymer Science with a minor in Engineering Studies

Accomplishments

PMSE Young Investigators Award

2018

Ruth L. Kirschstein NIH Postdoctoral Fellowship

2014-2015

**ACS Excellence in Graduate Polymer Research, MIT Chemistry Nominee
2013**

**NSF Graduate Research Fellowship
2008?2011**

**MIT Department of Chemistry Award for Outstanding Teaching
2008**

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