

# **Joshua Goldberger**

**Assistant Professor | Department of Chemistry and Biochemistry at The Ohio State University**  
Columbus, OH, US

New materials expert, specializing in applications in electronics, energy conversion, and medicine

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## **Biography**

Josh Goldberger received his B.S. in chemistry from The Ohio State University in 2001. He received his Ph.D. in chemistry from the University of California at Berkeley with Professor Peidong Yang in 2006, as an NSF graduate fellow. He then did his postdoctoral research with Professor Sam Stupp at Northwestern University as part of the Institute for BioNanotechnology in Medicine, as an NIH-NRSA postdoctoral fellow (2007-2010). He has received many awards, including an MRS Graduate Student Finalist Award in 2003, an IUPAC Prize for Young Chemists in 2007, and a Camille Dreyfus Teacher-Scholar Award in 2015. He joined the Ohio State Chemistry Department in August of 2010. The major focus of our lab is to learn how to design new materials that synergistically unite and organize inorganic and organic components for applications in energy conversion and medicine. Similar to how carbon can be sculpted into low-dimensional allotropes such as fullerenes, nanotubes, and graphene, the major premise of our research program is that the framework connectivity of atoms for any crystalline solid can be constrained along specific axes to produce stable, single atom or polyhedron thick derivatives with much different properties than the original material.

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## **Industry Expertise**

Research, Writing and Editing, Education/Learning, Medical Devices, Medical Equipment / Supplies / Distribution

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## **Areas of Expertise**

Chemistry, Biomedical Applications, Biomedical Engineering, Materials Science

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## **Education**

**Northwestern University**  
Postdoctoral Fellow Materials Science

**University of California, Berkeley**  
Ph.D.

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