

Alex Zunger - Biographical Sketch

Prof. Alex Zunger's research field is Condensed Matter Theory of Real Materials, including the development of the basic tools of the so-called "first principles theory of solids", nanostructures, and renewable energy materials. He is the founding Director of the U.S. Department of Energy (DOE) Basic Energy Sciences (BES) "Center for Inverse Design" and currently its Chief Scientist where he leads a group of scientists advancing the concept and implementation of "Materials by Design" – theory-led experimental realization of materials with pre-assigned "target properties".

Prof. Zunger received the 2013 *Hume-Rothery Award* of the TMS (on "First Principles Alloy Theory"), the Inaugural, 2011 "*Materials Theory Award*" of the MRS (on "Inverse Design of materials"), the 2010 *Tomassoni Physics Prize and the Science Medal* of Scola Physica Romana, commemorating the contribution of E. Fermi to physics (on foundational DFT work); the 2009 *Johannes Gutenberg award* of the University of Mainz (on correlated electron systems); the *John Bardeen award* of The Material Society (on the theoretical understanding and prediction of spontaneous ordering in alloys); the *Rhman Award* of the American Physical Society (on foundational work on first-principles electronic structure theory of solids). See http://en.wikipedia.org/wiki/Alex_Zunger. He has authored more than 600 articles, including over 150 articles in *Physical Review Letters* and *Rapid Communications*. According to Google Scholar Citation his papers were cited more than 62,000 times, his h-index exceeds 110 (i.e., more than 110 of his publications were cited each at least 110 times), see <http://scholar.google.com/citations?hl=en&user=9I1Ner8AAAAJ>. He is the author of the fifth-most-cited paper in the 110-year history of *Physical Review* (out of more than 350,000 articles published in that journal; see arxiv.org/abs/physics/0407137). His contact info is: Prof. A. Zunger, University of Colorado, Office of the Vice Chancellor for Research, 26 UCB, Regent Hall, 1B-54 Boulder, CO 80309-029. His email is alex.zunger@Colorado.edu.