



PROFILE

Staff Researcher
General Motors Global Research and
Development Center

CITATION

Original and sustained contributions to the
surface coating and its industrial applications



XINGCHENG XIAO

Asian American Engineer of the Year

Dr. Xingcheng Xiao is a Chinese American research scientist, husband, and father of two children. He was educated in China, with his Bachelor's, Master's, and Ph.D. degrees all in Materials Science and Engineering. He also spent one and a half years in Germany as an Alexander von Humboldt Fellow before he moved to the USA.

Dr. Xiao started his postdoctoral work at Argonne National Laboratory in 2002, where he developed a novel technique to encapsulate artificial retina implant with diamond coating to restore human vision. In addition, he also developed a variety of nanostructured carbon materials for water treatment, microelectronics, and other applications.

Dr. Xiao joined the GM Global Research and Developments Center as a Senior Researcher in 2006 and was promoted to Staff Researcher in 2010. His passion in making the world a better place has led to numerous innovative breakthroughs in lithium ion batteries for electrical vehicle applications. In addition, he has been leading several collaborative projects with leveraged research funding from the Department of Energy to enhance the fundamental understanding of battery failure mechanism.

Dr. Xiao has over 80 granted patents, with more than 20 currently used in GM products or licensed for commercialization, over 160 peer-reviewed publications, and numerous invited talks at international conferences. He is also the recipient of several prestigious awards, including two-time R&D 100 Awards (2013 and 2017) and 2011 SME "Innovations That Could Change the Way You Manufacture" Award.

Dr. Xiao has made significant contributions to the scientific community. He has been the editor-on-board for several high-impact journals, organized many conferences, and frequently been invited to review proposals for federal funding agencies. He has supervised over 10 postdocs and interns and served on thesis committees for graduate students.

Dr. Xiao likes tennis and biking and enjoys classical music in his spare time. He has also been an enthusiastic mentor to youth robotic teams in the local school district.