



Department of
Biomedical Engineering

香港城市大學
City University of Hong Kong

Nature Materials & Medicine

Dr. Xingcai Zhang

Researcher, Stanford University



Date: 2 December 2024

Time: 9:45 am - 10:45 am

Venue: YEUNG-Y4302, 4/F

Yeung Kin Man Academic Building

Abstract

Mother Nature provides us with abundant materials, ideas, possibilities, and sustainable solutions. Nature-derived/inspired materials shine the glory of Nature for diverse sustainable energy, environment, and especially biomedical applications due to their unique advantages including but not limited to excellent biocompatibility, biodegradability, vast abundance, low-cost, and diverse functionalities. This lecture will share and exchange research progress on nano-tea, sustainable living materials, Nature-derived 2D nanosheets/hydrogels with FDA-approved compounds and related AI /microfluidics-powered Nature-inspired/mimetic materials for advanced sustainable and biomedical applications.

Biography

Dr. Xingcai Zhang has served as the president of the world tea organization, a leading researcher at Stanford/Harvard/MIT, and a science writer/editor/advisory board member for American Association for the Advancement of Science (AAAS), Nature, Springer, Cell Press, American Chemical Society (ACS), Royal Society of Chemistry (RSC), Materials Today, and Wiley journals etc. Dr. Zhang has a 66+ h-index, 10000+ citations, and strong expertise in Machine-learning/Microfluidics-mediated Materials/Medicine/Mimetics (M5), especially sustainable Nature(-inspired) materials for advanced biomedical applications. He has published papers in prestigious journals like Nature Computational Science, Nature Reviews Methods Primers, Nature Reviews Clinical Oncology, Nature Nanotechnology, Nature Medicine, Nature Biomedical Engineering, Nature Reviews Materials, Nature Communications, Science Advances, and PNAS etc., with many being top 0.1% highly cited papers and featured cover papers. He has also received multiple awards including the Nature Nano Award, Harvard Mass General Brigham MGB CSSA Senior Science Advisor and Leading Scientist Award, Harvard GSAS (Graduate School of Arts and Sciences) Outstanding Instructor Award, Royal Society of Chemistry Chemical Society Reviews Pioneering Investigator Award, Royal Society of Chemistry Nano Scale Young Investigator Award, Nano-Micro Letters ESI Top Article Award, etc. He has been acknowledged by Nature VP Richard Hughes for his contribution to the publication of Nature Outlook Tea. He has given multiple talks for the Nature publishing group and was the sole author representing Nature Communications for the Springer Nature 1 million golden open access journal publication video promotion. He and his work have been reported by Fox News, Boston Globe, Boston Magazine, Harvard Political Review, China Daily USA, Boston City TV, MIT Technology Review, Deep Tech, AAAS, Materials Research Society (MRS), etc., hundreds of times. Dr. Zhang has given 100+ talks in top world institutes and hosted 100+ talks for female and diversity scholars, nature publishing group, materials today publishers, etc., at Harvard University. Dr. Zhang serve as a reviewer for multiple Science & Nature family journals, such as Sci. Transl. Med., Nat. Rev. Clin. Oncol. Nat. Rev. Cancer, etc. Dr. Zhang is among the Top 1% Scientists in the World.