Wujie Zhang, Ph.D.

Professor at Milwaukee School of Engineering

Milwaukee, WI, US

Dr. Wujie Zhang is an expert in biomaterials, tissue engineering, stem cell-based medicine, micro/nanotechnology, and drug delivery.

Biography

Dr. Wujie Zhang is currently a professor in Milwaukee School of Engineering?s Physics and Chemistry Department. Zhang truly believes the focus should be on each individual student -- strengthening the student experience through interaction, encouragement, and engagement. Zhang has led several projects based on a biomaterial known as pectin that have focused on drug delivery for cancer treatment, 3D printing for tissue engineering, and engineering artificial red blood cells. Moreover, Zhang has advised senior design projects related to the food industry, such as the development of novel American ginseng-based beverages.

Areas of Expertise

Biomaterials, Regenerative Medicine and Tissue Engineering, Micro/Nano-technology, Drug Delivery, Stem Cell Research, Cancer Treatment, Cryobiology, Food Science and Engineering

Affiliations

American Chemical Society (ACS) : Member, American Institute of Chemical Engineers (AIChE) : Member, American Society of Agricultural & Biological Engineers (ASABE) : Member, American Society for Engineer Education (ASEE) : Member, Biomedical Engineering Society (BMES) : Member, Society for Biological Engineers (SBE) : Member, World Association for Chinese Biomedical Engineers (WACBE) Life member

Event and Speaking Appearances

Genetically Modified Foods: From Science to Regulations
Wujie Zhang

3rd International Conference on Materials Science & Engineering: Novel Pectin-Based Hydrogel System for Biomedical Applications
April 2022

Novel Pectin-Based Hydrogel System for Biomedical Applications
3rd International Conference on Materials Science & Engineering

Increasing Motivation and Enhancing the chemistry enrichment experience of incoming students? through the use of lectures related to chemistry in engineering and ALEKS® system.
2020 ASEE Virtual Annual Conference and Exposition

Development and Characterization of Micro/Nano-biomaterials for Biomedical Applications
Shanghai Key Laboratory of Orthopaedic Implants (Shanghai Ninth People?s Hospital affiliated to Shanghai Jiao Tong University School of Medicine)

Stability Improvement and Characterization of Bioprinted Pectin-based Scaffold.
ASME Milwaukee Section Continuing Education and Professional Development Seminar

Design Pectin-Based Microcarriers for Colonic Drug Delivery
45th Annual Meeting & Exposition of the Controlled Release Society

Genetically Modified Foods
University of Wisconsin-Milwaukee,

A Parametric Study of Electrospinning of Pectin-Based Nanofibers
International Conference on Bioengineering and Nanotechnology

Solubility in Drug Development
MSOE Biophysics Conference

The Rise of Tissue Engineering and the Explosive Innovations that Could Transform Lives
MSOE

Education, Licensure and Certification

Ph.D.
Biomedical Engineering University of South Carolina

M.S.
Food Science University of Shanghai for Science and Technology

B.S.
Food Science and Engineering University of Shanghai for Science and Technology

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Accomplishments

Oscar Werwath Distinguished Teacher Award, MSOE
2023

Undergraduate Research Mentoring Award (URMA), Council on Undergraduate Research
2022 Engineering Division

Young Engineer of the Year, STEM Forward
2022

Milwaukee School of Engineering Campus KEEN Rising Star
2022

Wisconsin?s 34 Most Influential Asian American Leaders, Madison365
2021

Diversity and Inclusion Advocate Award
2020 Presented by MSOE Student Life Department in recognition of outstanding efforts and commitment to building and nurturing an inclusive campus community.

National Natural Science Foundation of China Grant
Transplantation of PRP-Modified Hydrogel Scaffold Containing BMSCs and E2 for Repairing; Co-PI
January 2019 ? December 2022

40 under 40, Milwaukee Business Journal
2019

American Society for Engineering Education (ASEE) Prism magazine ? 20 Under 40
2018

Falk Engineering Educator Award, MSOE
2016

Karl O. Werwath Engineering Research Award, MSOE
2016

Excellent Thesis/Dissertation Award
University of Shanghai for Science and Technology, 2009
