



**Professor Ying-Chieh Chen, Ph.D.**  
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**Research Interests** Vascular tissue engineering, Biomaterial mediated tissue regeneration, Stem cell and regenerative medicine, Implantable biosensor.

Dr. Chen has been devoted to the field of biomaterials for more than 14 years since the third year of the Ph.D., which the applicant completed at the Department of Materials Science and Engineering at the National Tsing Hua University (2008-2009). This dedication was also reflected in their postdoctoral research at the National Health Research Institutes and Brigham and Women's Hospital of Harvard Medical School (2009-2011). After joining the Department of Applied Science (AS) at the National Hsinchu University of Education (NHCUE) as an assistant professor in August 2011, the applicant soon established the Biomaterials and Regenerative Medicine Laboratory and continues to explore biomimetic biomaterials in nature for tissue-engineering applications (2011 until present). Dr. Chen's research on biomaterials and regenerative medicine has been published in 28 highly reputed Science Citation Index (SCI) journals in biomaterial- and biomedical-engineering-related categories, 22 of which the applicant was the first author (9 papers) or the corresponding author (15 papers). These journals include *Advanced Functional Materials*, *ACS Nano*, *Biomaterials*, *Advanced Healthcare Materials*, and *Acta Biomaterialia*. Dr. Chen has been active and influential in several academic professional societies (Materials Research Society of Taiwan (MRS-T), Carbon Society of Taiwan (CST), Nano Diamond and Nano Carbons (NDNC), Tissue Engineering and Regenerative Medicine International Society (TERMIS), and International Congress of Diabetes and Metabolism (ICDM), among others), and has served as an organizer, session chair, committee member, SCI journal referee, and editor/editorial board member. Her achievements and contributions have been notably recognized by the society, as the applicant has received the 2015-2018 MOST Outstanding Research Scholar, 2019-2022 NTHU Excellent Research Scholar, 2020 MOST Distinguished Young Researcher Grant, 2021 MRS-T Young Researcher Award.

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