



ENI AWARD 2024

Energy Frontiers

Nam-Gyu Park

Winner

Discovery of practical solid-state perovskite solar cells

Biography

Nam-Gyu Park: A Renowned Pioneer in Perovskite Solar Cells - Nam-Gyu Park is a Lifetime Distinguished SKKU Professor at the School of Chemical Engineering and the Director of the SKKU Institute of Energy Science and Technology (SIEST) at Sungkyunkwan University (SKKU). Born in 1960, Prof. Park has built an illustrious career centered around advancements in photovoltaics, specifically perovskite solar cells. *Educational Background* - Prof. Park began his academic journey at Seoul National University, where he earned his B.S. degree in Chemical Education in 1988. He continued his studies at the same institution, obtaining both his M.S. and Ph.D. degrees in Chemistry in 1992 and 1995, respectively. *Postdoctoral Research* - Following his doctoral studies, Prof. Park expanded his research horizons internationally. He worked as a postdoctoral researcher at ICMCB-CNRS in France from 1996 to 1997, and then at the National Renewable Energy Laboratory (NREL) in the USA from 1997 to 1999. *Professional Career* - Prof. Park's professional career is marked by significant roles in esteemed research institutions. From 2000 to 2005, he served as a senior researcher at the Electronics and Telecommunications Research Institute (ETRI). Subsequently, he became the director of the Solar Cell Research Center at the Korea Institute of Science and Technology (KIST) from 2005 to 2009. In 2009, he joined SKKU as a full professor. *Research Contributions* - A pivotal moment in Prof. Park's career came in 2012 when he first reported a long-term stable perovskite solar cell, marking the inception of perovskite photovoltaic research. His groundbreaking work in this area has positioned him as a leading scientist in the field. *Recognition and Awards* - Prof. Park's contributions to science and technology have earned him numerous accolades. Notably, he was named a Citation Laureate in 2017, recognizing him as a top 0.01% scientist and a potential Nobel Prize candidate. He has been listed among the Highly Cited Researchers (HCR) by Clarivate Analytics from 2017 to 2023. His extensive list of awards includes: - Scientist Award of the Month (2008) - Dupont Science and Technology Award (2010) - SKKU Fellowship (2013, 2018, 2021) - Dukmyung KAST Engineering Award (2016) - Samsung Ho-Am Prize (2018) - Rank Prize (UK, 2022) -

National Academy of Engineering of Korea (NAEK) Main Award (2024) - Korea's Top Scientist and Engineer Award (2024). *Professional Affiliations and Editorial Roles* - Prof. Park is an elected fellow of the Korean Academy of Science and Technology (KAST) since 2017. He actively contributes to the scientific community as the Senior Editor of ACS Energy Letters and serves on the Editorial Advisory Board for Chem. Rev., ChemSusChem, and Solar RRL. Prof. Nam-Gyu Park's enduring dedication and innovative research have significantly advanced the field of photovoltaics, solidifying his legacy as a pioneering scientist in energy science and technology.