

Professor Rose Amal

ARC Laureate Fellow, Scientia Professor, Particle and Catalysis Group, School of Chemical Engineering.

Professor Rose Amal is a UNSW Scientia Professor and an ARC Laureate Fellow. Prof. Rose Amal is a chemical engineer and the leader of the Particles and Catalysis Research Group. Previously she was also the Director of the ARC Centre of Excellence for Functional Nanomaterials (2010-2013). Professor Rose Amal is recognised as a pioneer and leading authority in the fields of fine particle technology, photocatalysis and functional nanomaterials having made significant contributions to these related areas of research over the past 15 years. Her research contributions span from fundamental chemistry to applied chemical engineering fields; from material science and nano-research to a specialised photochemistry field. Her current research focuses on designing nanomaterials for solar and chemical energy conversion applications (including photocatalysis for water and air purification, water splitting, development of indoor self-cleaning materials, low temperature catalytic reactions) and engineering systems for solar induced processes, using the sun's energy as a clean fuel source.

Over the last 10 years, she has successfully attracted over **\$25M** to UNSW from the Australian Research Council and industry partners (including the ARC Centre of Excellence for Functional Nanomaterials, ARC Laureate Fellowship, 6 ARC Discovery grants, 9 ARC Linkage Project grants, 15 ARC LIEF grants, and 3 ARC Linkage International Awards). She has published > 450 publications which have cumulatively received over **11700 citations**, resulting in an **H-index of 61** (as of February 2017, SCOPUS).

She has successfully supervised over 30 PhD students, 5 Masters students and more than 80 honours students in fields relating to environmental and energy technologies, including 8 University Medalists and over 20 Australian and International Postgraduate Award Holders.

Professor Rose Amal has received numerous prestigious awards including: being listed in the Australia's Top 100 Most Influential Engineers (2012-2015), the ExxonMobil Award (2012), the Judy Raper Women in Engineering Leadership Award (2012), the NSW Science and Engineering Award - Emerging Research (2011), the UNSW Scientia Professor (2009), the Freehills Award (2008), and the UNSW Vice Chancellors Award for Research Supervision Excellence (2003). She is a Fellow of Australian Academy of Technological Sciences and Engineering (FTSE), a Fellow of Australian Academy of Science (FAA), an Honorary Fellow of Engineers Australia and a chair of IChemE (Australia).

To find out more or to follow the works of Professor Rose Amal's research group, click: <http://www.pcrgr.unsw.edu.au>

To read her publications, go to https://www.researchgate.net/profile/Rose_Amal