

## Lifetime Achievers Leaderboard

# Research superstars

These are Australia's top 40  
researchers, measured by their  
performance over their career

**T**his Lifetime Achievers Leaderboard lists the five top researchers from Australian universities and research institutions in each of the eight major discipline areas. To identify the five top researchers in each area we calculate an annualised H-index for each of them. The H-index, named for physicist Jorge Hirsch who suggested it in 2005, is defined at the highest number H such that a given researcher has published H papers which have been cited H times. It measures both productivity and impact. For example, if a researcher has published 50 papers each with at least 50 citations, but has not managed to go one better and publish 51 papers each with at least 51 citations, then their H-index is 50. We then divide the H-index by the number of years that a researcher has been active (since their first citation) to obtain an annualised figure.

### Business, Economics & Management



**Sara Dolnicar**  
Tourism & Hospitality

At the University of Queensland, her research interests include market segmentation methodology and survey measures.



**Neal Ashkanasy**  
Human Resources & Organisations

At the University of Queensland, he researches leadership, organisational culture, ethics and emotions.



**Rob Raven**  
Business, Economics & Management

At Monash University, he researches dynamics and governance of sustainability transitions.



**Sharon Parker**  
Human Resources & Organisations

At Curtin University, she researches job and work design, proactive behaviour, wellbeing and job performance.



**Ian Phau**  
Marketing

At Curtin University, his research interests include country image, luxury branding, brand counterfeiting and piracy.

### Chemical & Material Sciences



**Shizhang Qiao**  
Materials Engineering

At the University of Adelaide, his research interests are synthesis and characterisation of nanomaterials.



**Yusuke Yamauchi**  
Materials Engineering

At the University of Queensland, he researches design of nanocrystals and nanoporous materials.



**Shaobin Wang**  
Chemical Kinetics & Catalysis

At the University of Adelaide, his research includes nanomaterial synthesis and application for adsorption and catalysis.



**Hongqi Sun**  
Chemical Kinetics & Catalysis

At Edith Cowan University, his research includes novel catalysis and advanced oxidation processes.



**Yoshio Bando**  
Materials Engineering

At the University of Wollongong's Australian Institute for Innovative Materials he researches nanomaterials and electron microscopy.

## Lifetime Achievers Leaderboard **Research Superstars**

### Engineering & Computer Sciences



**Dacheng Tao**  
Computer Vision & Pattern Recognition

At the University of Sydney, his research focus is artificial intelligence.



**Peng Shi**  
Automation & Control Theory

At the University of Adelaide, he researches systems and control theory, and computational intelligence.



**Dietmar Hutmacher**  
Biomedical Technology

At the Queensland University of Technology, he researches biomaterials, biomechanics, medical devices and tissue engineering.



**Qing-Long Han**  
Automation & Control Theory

At the Swinburne University of Technology, he researches power system stability and control, and wireless communication.



**Chunhua Shen**  
Computer Vision & Pattern Recognition

At the University of Adelaide, his research interests are statistical machine learning and computer vision.

### Health & Medical Sciences



**Sarah Medland**  
Genetics & Genomics

At the QIMR Berghofer Medical Research Institute, she researches genetic and environmental factors influencing mental health.



**Richard Ryan**  
Social Psychology

At the Australian Catholic University, his research includes human motivation and personality development and well-being.



**Louisa Degenhardt**  
Addiction

At UNSW Sydney, her diverse epidemiological studies include analysis of large-scale community and clinical population surveys.



**James Sallis**  
Public Health

At the Australian Catholic University, he researches promoting physical activity, and policy and environmental influences upon it.



**Grant Montgomery**  
Genetics & Genomics

At the University of Queensland, his research includes genomic mapping for risk of endometriosis and melanoma.

### Humanities, Arts & Literature



**Michael Haugh**  
Communication

At the University of Queensland, his linguistics research in pragmatics includes analysing face, (im) politeness and teasing.



**Larissa Hjorth**  
Communication

At RMIT University, her research fields include mobile media and mobile art.



**Fengyi Jin**  
Sex & Sexuality

At UNSW Sydney, his research includes epidemiology of sexually transmitted infections and HPV-related anal cancer.



**Alastair Pennycook**  
Foreign Language Learning

At the University of Technology, Sydney, his research includes implications of the global spread of English.



**Adrian North**  
Music & Musicology

At Curtin University, his research includes music and wellbeing in specific and general populations.

## Life Sciences & Earth Sciences



**Lidia Morawska**  
Environmental Sciences

At the Queensland University of Technology, she researches air quality's impact on health and the environment.



**Wenshan Guo**  
Environmental Sciences

At the University of Technology, Sydney, she researches innovative water and wastewater treatment, and reuse technologies.



**William Laurance**  
Biodiversity & Conservation Biology

At James Cook University, his research includes impacts of intensive land uses on tropical forests.



**Ben Hayes**  
Animal Husbandry

At the University of Queensland, he researches genetic improvement of livestock, crop and pasture and aquaculture species.



**Ian Paulsen**  
Life Sciences & Earth Sciences

At Macquarie University, his research interests include microbiology and microbial genomics.

## Physics & Mathematics



**Ray Frost**  
Spectroscopy & Molecular Physics

At the Queensland University of Technology, his research interests include vibrational spectroscopy.



**Benjamin Eggleton**  
Optics & Photonics

At the University of Sydney, his research interests include optical communications technology.



**Shi Xue Dou**  
Condensed Matter Physics & Semiconductors

At the University of Wollongong, his research interests include energy materials research.



**Andrey Miroshnichenko**  
Optics and Photonics

At UNSW Sydney, his research interests include nonlinear optics and nanophotonics.



**Ping Koy Lam**  
Physics & Mathematics

At the Australian National University, his research includes quantum optics, optical metrology and nonlinear optics.

## Social Sciences



**Herbert Marsh**  
Educational Psychology & Counselling

At the Australian Catholic University, his research includes self-concept and motivation.



**Julie Henry**  
Cognitive Science

At the University of Queensland, she researches how social cognition and prospection are disrupted by normal adult ageing and clinical illness.



**Tan Yigitcanlar**  
Urban Studies and Planning

At the Queensland University of Technology, he researches contemporary urban planning and development challenges.



**Andrew Martin**  
Educational Psychology & Counselling

At the UNSW Sydney, he researches educational motivation, engagement and achievement.



**David Treagust**  
Science & Engineering Education

At Curtin University, his research interests include how interventions can enhance students' understanding of science.