

Background information on Highly Cited Researchers and Highly Cited Papers

Highly Cited Researchers are identified by Thomson Reuters (TR) and are defined as the preeminent individual researchers, in each of 21 subject categories, who have demonstrated great influence in their field as measured by citations to their work. Once a researcher has been deemed highly cited, they remain on the list in perpetuity.

Two methods have been used to identify Highly Cited Researchers. The first method, used until December 31 2011, was based on citations from the period 1981-2008. Eighteen Highly Cited Researchers (HiCis) affiliated with UWA were identified using this method:

Field	Researcher	Field	Researcher
Ecology and Environment	Richard Hobbs	Ecology and Environment	John Wiens
Immunology	Patrick Holt	Mathematics	Cheryl Praeger
Plant & Animal Science	Hans Lambers	Plant & Animal Science	Carlos Duarte
Geosciences	Malcolm McCulloch	Plant & Animal Science	Rana Munns
Plant & Animal Science	John Pate	Plant & Animal Science	André Läuchli
Plant & Animal Science	Stephen Powles	Plant & Animal Science	David Read
Space Science	Peter Quinn	Plant & Animal Science	Mark Chase
Chemistry	Brian Skelton	Plant & Animal Science	Christine Foyer
Chemistry	Allan White	Ecology and Environment	Robert Naiman

In June 2014, Thomson Reuters released a revised methodology for the identification of HiCis. The analysis of Highly-Cited Researchers now covers a 10-year moving window of papers with citations counted over an additional year, so that every paper has been available for citation for at least twelve months.

Further details on the new methodology can be found at: <http://www.highlycited.com/methodology/>

Eight UWA authors have been classified as Highly Cited using the new methodology:

Field	Researcher
Economics & Business	Christina Gibson
Plant & Animal Science	Rajeev Varshney
Plant & Animal Science	Mark Chase
Plant & Animal Science	Christine Foyer
Plant & Animal Science	Harvey Millar
Plant & Animal Science	Ian Small
Environment/Ecology	Richard Hobbs
Environment/Ecology	Duarte, Carlos

Highly Cited Papers are identified by Thomson Reuters and can be found via the Essential Sciences Indicators website, which is accessible through the UWA Library.

Highly Cited Papers are identified across 22 broad fields of research (The 21 subject categories used in identifying Highly Cited Researchers as well as the category “multidisciplinary”) and reflect the most cited papers within those fields over the past decade. To select highly cited papers, citation cut-offs specific to fields and the year of publication are applied to all papers in a field’s journal set. Citations from all sources are counted, and are cumulated from the year of publication through the current year. The time period for counts is 10 years, plus partial year counts for the current year (data is updated every two to four months).

Papers are defined as regular scientific articles, review articles, proceedings papers, and research notes. Letters to the editor, correction notices, and abstracts are not counted. Only Thomson Scientific-indexed items are considered.

In early March 2015 the University conducted an audit of Highly Cited Papers published in 2013 and identified 66 UWA Highly Cited Papers. The 66 papers involve 129 unique UWA authors, a number of which have two or more papers listed. UWA authors include academic and general staff as well as adjuncts and students.

It should be noted that within the Essential Science Indicators, data is updated every two months, and thus the list of Highly Cited Papers for a particular year is not static.

The list of Highly Cited Papers is provided on the following pages. Due to the large number of authors involved in a number of papers, only authors using the UWA by-line have been listed.

If you require further information on Highly Cited Researchers or Highly Cited Papers, contact:
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UWA Authors	Title	Source	ESI Cites
Lister, Ryan; Tonti-Filippini, Julian	Global Epigenomic Reconfiguration During Mammalian Brain Development	SCIENCE	83
Singh, Karam B	Draft genome sequence of chickpea (<i>Cicer arietinum</i>) provides a resource for trait improvement	NATURE BIOTECHNOLOGY	79
Khan, Jane C.	Seven new loci associated with age-related macular degeneration	NATURE GENETICS	80
Duarte, Carlos M.	Impacts of ocean acidification on marine organisms: quantifying sensitivities and interaction with warming	GLOBAL CHANGE BIOLOGY	78
Watts, Gerald F.	Familial hypercholesterolaemia is underdiagnosed and undertreated in the general population: guidance for clinicians to prevent coronary heart disease	EUROPEAN HEART JOURNAL	47
Riley, Tom	Emergence and global spread of epidemic healthcare-associated <i>Clostridium difficile</i>	NATURE GENETICS	49
Kuchling, Gerald	The conservation status of the world's reptiles	BIOLOGICAL CONSERVATION	45
Wernberg, Thomas; Smale, Dan A.; Thomsen, Mads S.; Langlois, Timothy J.; de Bettignies, Thibaut; Bennett, Scott	An extreme climatic event alters marine ecosystem structure in a global biodiversity hotspot	NATURE CLIMATE CHANGE	45
Kermode, Allan	Analysis of immune-related loci identifies 48 new susceptibility variants for multiple sclerosis	NATURE GENETICS	39
Abbott, Lynette; O'Donnell, Anthony G	The knowns, known unknowns and unknowns of sequestration of soil organic carbon	AGRICULTURE ECOSYSTEMS & ENVIRONMENT	32
Norman, Paul E.	Comparison of global estimates of prevalence and risk factors for peripheral artery disease in 2000 and 2010: a systematic review and analysis	LANCET	37
Soo, Ross A	Isolation and retrieval of circulating tumor cells using centrifugal forces	SCIENTIFIC REPORTS	40
Duarte, Carlos M.	Global imprint of climate change on marine life	NATURE CLIMATE CHANGE	33
Veneklaas, E. J.	New handbook for standardised measurement of plant functional traits worldwide	AUSTRALIAN JOURNAL OF BOTANY	40
Tanz, Sandra K.; Castleden, Ian; Hooper, Cornelia M.; Vacher, Michael; Small, Ian; Millar, Harvey A	SUBA3: a database for integrating experimentation and prediction to define the SUBcellular location of proteins in Arabidopsis	NUCLEIC ACIDS RESEARCH	43
Mott, Lauren S.; Stick, Stephen M	Risk Factors for Bronchiectasis in Children with Cystic Fibrosis	NEW ENGLAND JOURNAL OF MEDICINE	41
Hewitt, Alex W.; Mackey, David A. ;Ang, Wei; Pennell, Craig E.	Genome-wide meta-analyses of multiancestry cohorts identify multiple new susceptibility loci for refractive error and myopia	NATURE GENETICS	46
Regli, Adrian	Intra-abdominal hypertension and the abdominal compartment syndrome: updated consensus definitions and clinical practice guidelines from the World Society of the Abdominal Compartment Syndrome	INTENSIVE CARE MEDICINE	41
Simmer, Karen	Oxygen Saturation and Outcomes in Preterm Infants	NEW ENGLAND JOURNAL OF MEDICINE	40
Hall, Graham L. ; Pillow, Jane J.	Consensus statement for inert gas washout measurement using multiple- and single-breath tests	EUROPEAN RESPIRATORY JOURNAL	41

UWA Authors	Title	Source	ESI Cites
Webb, Steven A. R.	Continuous Infusion of Beta-Lactam Antibiotics in Severe Sepsis: A Multicenter Double-Blind, Randomized Controlled Trial	CLINICAL INFECTIOUS DISEASES	40
Blair, D.; Chen, X.; Chung, S.; Coward, D. M.; Danilishin, S. L.; Dumas, J. -C.; Hooper, S.; Howell, E. J.; Ju, L.; Susmithan, S.; Wen, L.; Whitcomb, S. E.; Zhao, C.	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network	PHYSICAL REVIEW D	38
Blair, D.; Chen, X.; Chu, Q.; Coward, D. M.; Danilishin, S. L.; Dumas, J. -C.; Fang, Q.; Hooper, S.; Howell, E. J.; Ju, L.; Susmithan, S.; Verma, S.; Wen, L.; Whitcomb, S. E.; Zhao, C.; Zhu, X. J.]	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light	NATURE PHOTONICS	35
Munns, Rana	Using membrane transporters to improve crops for sustainable food production	NATURE	32
Hewitt, Alex W.; Yazar, Seyhan; Mackey, David A; Mountain, Jenny; Ang, Wei; Pennell, Craig Hipsey, M.	Genome-wide association analyses identify multiple loci associated with central corneal thickness and keratoconus	NATURE GENETICS	36
	Panta Rhei-Everything Flows: Change in hydrology and society-The IAHS Scientific Decade 2013-2022	HYDROLOGICAL SCIENCES JOURNAL- JOURNAL DES SCIENCES HYDROLOGIQUES	29
Walker, Christopher	An evidence-based consensus for the classification of arbuscular mycorrhizal fungi (Glomeromycota)	MYCORRHIZA	22
Duarte, Carlos M.; Olsen, Ylva S. ; Trotter, Julie A. ;McCulloch, Malcolm	Is Ocean Acidification an Open-Ocean Syndrome? Understanding Anthropogenic Impacts on Seawater pH	ESTUARIES AND COASTS	33
Gilmour, James P.; Smith, Luke D.; Heyward, Andrew J.	Recovery of an Isolated Coral Reef System Following Severe Disturbance	SCIENCE	32
Blair, D.; Chen, X.; Chung, S.; Coward, D. M.; Danilishin, S. L.; Dumas, J. -C.; Hooper, S.; Howell, E. J.; Ju, L.; Susmithan, S.; Wen, L.; Whitcomb, S. E.; Zhao, C.	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009-2010	PHYSICAL REVIEW D	31
Simmons, Leigh W	Polyandry as a mediator of sexual selection before and after mating	PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES	27
Green, Daniel J.	A new approach to improve the specificity of flow-mediated dilation for indicating endothelial function in cardiovascular research	JOURNAL OF HYPERTENSION	28
Nidorf, Stefan M. ; Budgeon, Charley A.	Low-Dose Colchicine for Secondary Prevention of Cardiovascular Disease	JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY	27
Dunstan, David W.	Reducing sitting time in office workers: Short-term efficacy of a multicomponent intervention	PREVENTIVE MEDICINE	20

UWA Authors	Title	Source	ESI Cites
Pirajno, Franco	Major types and time-space distribution of Mesozoic ore deposits in South China and their geodynamic settings	MINERALIUM DEPOSITA	26
Ly, Trang T.; Nicholas, Jennifer A.; Retterath, Adam; Davis, Elizabeth A.; Jones, Timothy W	Effect of Sensor-Augmented Insulin Pump Therapy and Automated Insulin Suspension vs Standard Insulin Pump Therapy on Hypoglycemia in Patients With Type 1 Diabetes A Randomized Clinical Trial	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	24
Cook, John	Quantifying the consensus on anthropogenic global warming in the scientific literature	ENVIRONMENTAL RESEARCH LETTERS	21
Thompson, Philip J.	Inhaled, dual release liposomal ciprofloxacin in non-cystic fibrosis bronchiectasis (ORBIT-2): a randomised, double-blind, placebo-controlled trial	THORAX	23
Beilin, Lawrence J.; Burke, Valerie	Obesity-Related Hypertension: Pathogenesis, Cardiovascular Risk, and Treatment A Position Paper of The Obesity Society and the American Society of Hypertension	JOURNAL OF CLINICAL HYPERTENSION	22
Gill, Andrew W.	Delaying cord clamping until ventilation onset improves cardiovascular function at birth in preterm lambs	JOURNAL OF PHYSIOLOGY-LONDON	22
Bull, Fiona; Knuiman, Matthew; Van Niel, Kimberly; Christian, Hayley; Foster, Sarah; Divitini, Mark; Middleton, Nick; Boruff, Bryan	The influence of urban design on neighbourhood walking following residential relocation: Longitudinal results from the RESIDE study	SOCIAL SCIENCE & MEDICINE	23
Wilto, Stephen D	MicroRNAs Regulate Tumor Angiogenesis Modulated by Endothelial Progenitor Cells	CANCER RESEARCH	23
Smale, Dan A.; Wernberg, Thomas	Extreme climatic event drives range contraction of a habitat-forming species	PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES	17
Simmons, Leigh W	SPERM COMPETITION GAMES: A GENERAL MODEL FOR PRECOPULATORY MALE-MALE COMPETITION	EVOLUTION	17
Smith, David W.; Gardiner, Bruce S.	Haemodynamic influences on kidney oxygenation: Clinical implications of integrative physiology	CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY	21
Lewandowsky, Stephan; Oberauer, Klaus; Gignac, Gilles E.	NASA Faked the Moon Landing-Therefore, (Climate) Science Is a Hoax: An Anatomy of the Motivated Rejection of Science	PSYCHOLOGICAL SCIENCE	15
Lewandowsky, Stephan; Gignac, Gilles E.; Vaughan, Samuel	The pivotal role of perceived scientific consensus in acceptance of science	NATURE CLIMATE CHANGE	15
Cawood, P. A.	The continental record and the generation of continental crust	GEOLOGICAL SOCIETY OF AMERICA BULLETIN	17
Nansen, Christian	The maize lipoxygenase, ZmLOX10, mediates green leaf volatile, jasmonate and herbivore-induced plant volatile production for defense against insect attack	PLANT JOURNAL	16
Taylor, Jeannette	Investigating the Structure and Meaning of Public Service Motivation across Populations: Developing an International Instrument and Addressing Issues of Measurement Invariance	JOURNAL OF PUBLIC ADMINISTRATION RESEARCH AND THEORY	12
Larkan, N. J.; Nelson, M. N. ;Cowling, W. A.	The Brassica napus blackleg resistance gene LepR3 encodes a receptor-like protein triggered by the Leptosphaeria maculans effector AVRML1	NEW PHYTOLOGIST	14

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Cawood, Peter A.	Locating South China in Rodinia and Gondwana: A fragment of greater India lithosphere?	GEOLOGY	15
Hood, Sean D.	A review of lifestyle factors that contribute to important pathways associated with major depression: Diet, sleep and exercise	JOURNAL OF AFFECTIVE DISORDERS	13
Liu, Jishan	Permeability evolution during progressive deformation of intact coal and implications for instability in underground coal seams	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES	15
Cardini, Andrea	The long and winding road: identifying pig domestication through molar size and shape	JOURNAL OF ARCHAEOLOGICAL SCIENCE	16
Chen, Ying L.; Rengel, Zed	Modelling root-soil interactions using three-dimensional models of root growth, architecture and function	PLANT AND SOIL	10
Van Aken, Olivier; Murcha, Monika W.; Law, Simon R.; Ng, Sophia; Ivanova, Aneta; Whelan, James	The Membrane-Bound NAC Transcription Factor ANAC013 Functions in Mitochondrial Retrograde Regulation of the Oxidative Stress Response in Arabidopsis	PLANT CELL	13
Ng, Sophia; Ivanova, Aneta; Duncan, Owen; Law, Simon R.; Van Aken, Olivier; Wang, Yan; Carrie, Chris; Xu, Lin; Walker, Hayden; Whelan, James; Giraud, Estelle	A Membrane-Bound NAC Transcription Factor, ANAC017, Mediates Mitochondrial Retrograde Signaling in Arabidopsis	PLANT CELL	12
Smith, Steven M.	SUPPRESSOR OF MORE AXILLARY GROWTH2 1 Controls Seed Germination and Seedling Development in Arabidopsis	PLANT PHYSIOLOGY	12
Winkel, Anders; Colmer, Timothy D.; Pedersen, Ole	Internal aeration of paddy field rice (<i>Oryza sativa</i>) during complete submergence importance of light and floodwater O ₂	NEW PHYTOLOGIST	13
Smith, Steven M.	KAI2- and MAX2-Mediated Responses to Karrikins and Strigolactones Are Largely Independent of HYS in Arabidopsis Seedlings	MOLECULAR PLANT	16
Girschik, Jennifer; Fritschi, Lin; Girschik, Jennifer; Heyworth, Jane	Self-reported Sleep Duration, Sleep Quality, and Breast Cancer Risk in a Population-based Case-Control Study	AMERICAN JOURNAL OF EPIDEMIOLOGY	14
Davis, Timothy M. E.; Bruce, David G.; Davis, Wendy A.	Cohort Profile: The Fremantle Diabetes Study	INTERNATIONAL JOURNAL OF EPIDEMIOLOGY	13
Siddique, Kadambot H. M.; Turner, Neil C.	Ridge-Furrow Mulching Systems-An Innovative Technique for Boosting Crop Productivity in Semiarid Rain-Fed Environments	ADVANCES IN AGRONOMY, VOL 118	12
Xu, Lin; Law, Simon R.; Murcha, Monika W.; Whelan, James	Acquisition, Conservation, and Loss of Dual-Targeted Proteins in Land Plants	PLANT PHYSIOLOGY	13
Christian, Hayley E.	Dog Ownership and Physical Activity: A Review of the Evidence	JOURNAL OF PHYSICAL ACTIVITY & HEALTH	11

