Vision
To be a leading research-intensive university in Africa, recognised internationally for its quality, relevance and impact, and also for developing people, creating knowledge and making a difference locally and globally.

Mission
In pursuing recognition and excellence in its core functions of research and teaching and learning, and integrating engagement with society and the community into these, the University of Pretoria will use quality, relevance, diversity and sustainability as its navigational markers.

Goals
- To be a leading research-intensive university in Africa
- To strengthen the University’s international profile and visibility
- To strengthen the University’s impact on South Africa’s economic and social development
- To pursue excellence in teaching and learning
- To increase access, throughput and diversity
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Research publications

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Introduction

Over the past number of years, the University of Pretoria has consistently published the highest number of research papers. The University’s research output for 2012 in terms of publications indicates that the upward trend seen in 2011 has continued.

This publication provides the details of the journal articles, published peer reviewed conference proceedings, books, and chapters in books authored and/or co-authored by the University of Pretoria’s researchers across all nine faculties, the Gordon Institute of Business Science (GIBS) and the Department of Education Innovation.
Faculty of Economic and Management Sciences
Economic and Management Sciences

Accounting

Journal articles


Conference contributions


Auditing

Journal articles


Business Management

Journal articles


Botha M, Esterhuysen E: 2012. The perceived capabilities and willingness of South African small business owners to act as business


Conference contributions


Economics

Journal articles


Conference contributions


**Financial Management**

**Journal articles**


**Human Resource Management**

**Journal articles**


Chapters in books


Marketing Management

Journal articles


Conference contributions


School of Public Management and Administration

Journal articles


Taxation

Journal articles


Conference contributions


Tourism Management

Journal articles


Conference contributions


Education

Dean’s Office

Journal articles


Chapters in books


Early Childhood Education

Journal articles


Conference contributions


Education Management and Policy Studies

Journal articles


**Chapters in books**


**Educational Psychology**

**Journal articles**


**Authored books**


**Humanities Education**

**Journal articles**


Authored books


Conference contributions

Swart R: 2012. Teachers as agents of change can turn the tide. EASA 2011 Conference Proceedings (Beauty and the Beast), Sun City, South Africa, 10 Jan 2011–13 Jan 2011.

Science, Mathematics and Technology Education

Journal articles


**Conference contributions**


**Unit for Distance Education**

**Journal articles**


**SUPPORT SERVICES**

**Education Innovation**

**Journal articles**


**Conference contributions**


* Due to space restrictions, the research publications of the Department of Education Innovation are placed on this page.


Gous GZ, De Vaal PL: 2012. Using MV overshoot as a tuning metric in choosing DMC move


Chapters in books


Conference contributions


Civil Engineering

Journal articles


**Conference contributions**


in Pavement Design through Full-scale Accelerated Pavement Testing (APT 2012), California, United States of America, 19 Sep 2012–21 Sep 2012.


Electrical, Electronic and Computer Engineering

Journal articles


Jacobs JP: 2012. Bayesian support Vector regression with automatic relevance determination kernel for modelling of antenna


Chapters in books


Conference contributions


Industrial and Systems Engineering

Journal articles


**Conference contributions**


City Logistics, Mallorca, Spain, 7 Jun 2011–9 Jun 2011.


Materials Science and Metallurgical Engineering

Journal articles


Conference contributions


Mechanical and Aeronautical Engineering

Journal articles


**Conference contributions**


Bello-Ochende T, Meyer JP: 2012. Flow orientation in conjugate cooling channels with


Botha N, Kok S, Inglis HM: 2012. Intraocular pressure estimation using proper orthogonal decomposition. 10th World Congress on Computational Mechanics, Sao Paulo, Brazil, 8 Jul 2012–13 Jul 2012.


Conference contributions


Institutes

Industrial Minerals and Metals Research Institute

Journal articles


Institute for Technological Innovation

Journal articles


Conference contributions


School for the Built Environment

Architecture

Journal articles


**Chapters in books**


**Conference contributions**


Swart JJ, Bakker KA, Veldpaus L, Claus K, Rodgers A: 2012. World heritage cities:


**Construction Economics**

**Journal articles**


**Conference contributions**


Oberholzer RV, Cloete CE: 2012. Impact of the South African Gautrain on property values. COBRA 2012 – Proceedings of the...


Du Plessis C: 2012. Applying the theoretical framework of ecological resilience to the promotion of sustainability in the urban social-ecological system. 4th CIB Conference on Smart and Sustainable Built Environments – SASBE2012, Sao Paulo, Brazil, 28 Jun 2012–29 Jun 2012.


Jansen JJA: 2012. Encouraging innovation in the built environment by exposing pre-graduate students to different innovative building systems. 4th CIB Conference on Smart and Sustainable Built Environments – SASBE2012, Sao Paulo, Brazil, 28 Jun 2012–29 Jun 2012.


Chapters in books


Conference contributions


Conference contributions


School of Information Technology

Computer Science

Journal articles


Ngobeni S, Venter HS, Burke I: 2012. The modelling of a digital forensic readiness


Conference contributions


Chapters in books


Conference contributions


Information Science

Journal articles


Ponelis SR, Britz JJ: 2012. A descriptive framework of business intelligence derived from definitions by Academics, Practitioners


Chapters in books


Authored books


Conference contribution


School of Information Technology

Journal articles


Conference contributions


an online social insurance architecture.

Graduate School of Technology Management
Engineering and Technology Management

Journal articles


**Conference contributions**


Faculty of Health Sciences
Health Sciences

Dean’s Office

Journal articles


School of Medicine

Journal articles


Anatomy

Journal articles


military training on visual skills. In Scientific Reports, 1(1), Online.


Chapters in books


Conference contribution


Anatomical Pathology

Journal articles


Conference contributions

**Anesthesiology**

**Journal articles**


**Chemical Pathology**

**Journal articles**


**Family Medicine**

**Journal Article**


Bac M: 2012. Can the re-engineering of PHC and/or the introduction of community paediatricians be the solution? In SAMJ South African Medical Journal, 102(11), pp. 815–816.


Forensic Medicine

Journal articles


Chapters in books

Haematology

Journal articles


Human Nutrition

Journal articles


Immunology

Journal articles


Pepper MS: 2012. Partial relief from the regulatory vacuum involving human tissues
through enactment of chapter 8 of the National Health Act and regulations thereto. In *SAMJ South African Medical Journal*, 102(9), pp. 736–737.


Conference contributions


Internal Medicine

Journal articles


Rheeder P, Duim-Beytell C, Meijer R, Gustavsson T, Danler GKG, Ahmed RA, Van Zyl DG:


Medical Microbiology

Journal articles


**Medical Oncology**

**Journal articles**


**Medical Virology**

**Journal Article**


**Neurology**

**Journal articles**


Nuclear Medicine

Journal articles


Obstetrics and Gynaecology

Journal articles


Orthopedics

Journal articles


Paediatrics

Journal articles


Pharmacology

Journal articles


**Physiology**

**Journal articles**

Koorts AM, Levay PF, Hall AN, Van der Merwe CF, Becker PJ, Frantzen D, Viljoen M: 2012. Expression of the H+ and L-subunits of ferritin in bone marrow macrophages of patients with
osteoarthritis. In Experimental Biology and Medicine, 237, pp. 688–693.


Bipath P, Viljoen M, Levay PF: 2012. Levels of procalcitonin, C-reactive protein and neopterin


Ker J: 2012. Thyroxine and cardiac electrophysiology – a forgotten physiological duo? In Thyroid Research, 5, Online.


Conference contributions


of the European Association for the Study of the Liver, Barcelona, Spain, 18 Apr 2012–22 Apr 2012.


Psychiatry

Journal articles


Radiation Oncology

Journal articles


Radiotherapy

Journal articles


Sports Medicine

Journal articles


**Surgery**

**Journal articles**


Conference contributions

School of Dentistry

Community Dentistry

Journal articles


Maxillo-Facial and Oral Surgery

Journal articles

Odontology

Journal articles


Oral Pathology and Oral Biology

Journal articles


Orthodontics

Journal articles


Periodontics and Oral Medicine

Journal articles


School of Health Care Sciences

Journal articles


Nursing Science

Journal articles


Nkosi N, Van der Wath AE: 2012. Mental health effects of domestic violence experienced by women in a low socio-economic area in...


Van der Wath AE: 2012. Emergency' nurses’ experiences of caring for survivors of intimate partner violence.

Physiotherapy

Journal articles


Conference contributions


Radiography

Chapters in books


School of Health Systems and Public Health

Journal articles


International Journal of Tuberculosis and Lung Disease, 16(8), pp. 1052–1058.


Community Health

Journal articles


Public Health Medicine

Journal articles


**Journal articles**


**Chapters in books**


**Conference contributions**


**African Languages**

**Journal articles**


**Chapter in books**


**Conference contributions**


**Afrikaans**

**Journal articles**


**Chapters in books**


**Authored books**


**Ancient Languages**

**Journal Article**


Chapters in books


Authored books


Conference contributions


Anthropology and Archaeology

Journal articles


Chapters in books


Biokinetics, Sport and Leisure Sciences

Journal articles


Du Toit PJ, Jansen van Vuuren SP, Le Roux AS, Henning E, Kleynhans MJ, Terblanche HC, Faculty of Humanities

**Conference contributions**


**Centre for Augmentative and Alternative Communication**

**Journal articles**


Drama

Journal articles


Chapters in books


English

Journal articles


**Chapters in books**


**Historical and Heritage Studies**

**Journal articles**


**Chapters in books**


**Authored books**


Institute for Sport Research and Training

Journal articles

Institute for Women’s and Gender Studies

Journal articles

Modern European Languages

Journal articles

Conference contributions

Music

Journal articles

Conference contributions
Philosophy

Journal articles


Chapters in books


Authored books


Political Sciences

Journal Article


Van Wyk JK: 2012. South Africa and the global nuclear bazaar: Norms and state identity in...


Chapter in Books


Authored books


Psychology

Journal articles


Chapters in books

Conference Contributions


Social Work and Criminology
Journal articles


Chapters in books

Sociology
Journal articles


**Chapters in books**


**Unit for Academic Literacy**

**Journal articles**


**Chapters in books**


**Unit for Creative Writing**

**Journal articles**

Chapters in books

Visual Arts
Journal articles


Farber L, Dreyer E: 2012. The diary of Bertha Marks as a heterotopia, as articulated in the artwork, The Futility of Writing 24-page letters. Literator, 33(1).


Chapters in books

Conference Contributions
LAW

Dean’s Office

Journal articles

Boraine A, Van Heerden CM, Roestoff M: 2012. A comparison between formal debt administration and debt review – the pros and cons of these measures and suggestions for law reform (Part 1). In De Jure, 1(45), pp. 80–103.

Boraine A, Van Heerden CM, Roestoff M: 2012. A comparison between formal debt administration and debt review - the pros and cons of these measures and suggestions for law reform (Part 2). In De Jure, 2(45), pp. 254–271.

Centre for Child Law

Journal articles


Centre for Human Rights

Journal articles


Abebe AK: 2012. Limitations to the rights of indigenous peoples in Africa: A model for balancing national interest in development with


Chapters in books


Chapters in books


Mercantile Law

Journal articles


Boraine A, Van Heerden CM, Roestoff M: 2012. A comparison between formal debt administration and debt review - the pros and cons of these measures and suggestions for law reform (Part 1). In *De Jure*, 1(45), pp. 80–103.


Van Heerden CM: 2012. The impact of the right of access to adequate housing on the


Chapters in books


Private Law

Journal articles


Skelton AM: 2012. How far will the courts go in ensuring the right to a basic education? In SA Public Law, 27(2), pp. 392–408.


**Chapters in books**


**Procedural Law**

**Journal articles**


Olivier NJJ, Williams C, Olivier NJJ: 2012. Attempted circumvention of Addo National Park’s expansion-blatant manipulation by officials of the Land Reform (Redistribution)


Chapters in books


Public Law
Journal articles


Faculty of Natural and Agricultural Sciences


Mungatana ED, Ahimbisibwe P: 2012. Qualitative impacts of senna spectabilis on distribution of welfare: A household survey of dependant


Chapters in books


Animal and Wildlife Sciences

Journal articles


*Biochemistry*

*Journal articles*


Chapters in books

Conference contributions
Reva O, Bezuidt KIO: 2012. Visualization of distribution of pathogenicity genomic islands between pathogenic, nosocomial and
environmental bacteria. 16th International Conference on Information Visualisation, Montpellier, France, 10 Jul 2012–13 Jul 2012.


Centre for Wildlife Management

Journal articles


Chemistry

Journal articles


Landman M, Van der Westhuizen B, Bezuidenhout DI, Liles DC: 2012. [µ-5-(1,3-Bis(2,4,6-trimethylphenyl)-3H-imidazolium-2-yl)-2-(2-oxoethenyl-1kC1)furan-3-yl-2kC3]-µ-hydrido-bis-(tetracarbonylrhenium) tetrahydrofuran 0.67-solvate. In Acta Crystallographica Section E-Structure Reports Online, 1(E68), pp. m308–m309.


**Consumer Science**

**Journal articles**


Conference contributions


FABI

Journal articles


Chapters in books


Journal Article


Conference contributions


Genetics

Journal articles


Greeff JM, Greeff F, Greeff A, Rinken L, Welgemoed D, Harris Y: 2012. Low nonpaternity rate in an...


Conference contributions


Geography, Geoinformatics and Meteorology

Journal articles


**Chapters in books**


**Conference contributions**


**Geology**

**Journal articles**


Chapters in books


Insurance and Actuarial Science

Journal articles


Laboratory for Microscopy and Microanalysis

Journal articles


Venter E, Van der Merwe CF, Van Staden V: 2012. Utilization of cellulose microcapillary tubes as a model system for culturing and viral infection of mammalian cells. In Microscopy Research and Technique, 75, pp. 1452–1459.


Conference contributions


Mammal Research Institute

Chapters in books


Mathematics and Applied Mathematics

Journal articles


**Conference contributions**


**Microbiology and Plant Pathology**

**Journal articles**


Conference contributions


Mongae AO, Hall AN, Moleleki LN: 2012. The interaction between root knot nematodes (RKN) and soft rot enterobacteriaceae (SRE) in potatoes.

Physics

Journal articles


Mashapa MG, Chetty N, Sinha Ray S: 2012. Ab initio studies of vacancies in (8,0) and (8,8) single-walled carbon and boron nitride nanotubes. In *Journal of Nanoscience and Nanotechnology*, 12, pp. 7030–7036.


Ukpong AM, Chetty N: 2012. First principles molecular dynamics study of nitrogen vacancy


Chapters in books


Conference contributions


Plant Production and Soil Science

Journal articles


Plant Science

Journal articles


Nyila MA, Leonard C, Hussein AA, Lall N: 2012. Activity of South African medicinal plants against...


Chapters in books


Statistics

Journal articles


*Conference contributions*


*Zoology and Entomology*

*Journal articles*


Scheffer EG, Venter GJ, Labuschagne K, Page PC, Mullens B, MacLachlan N, Osterrieder N,


Ganswindt A, Muijlwijk C, Engelkes M, Muenscher-Ganswindt S, Bertschinger HJ,


Boyles JG, Smit B, Mckechnie AE: 2012. Variation in body temperature is related to ambient temperature but not experimental manipulation of insulation in two small endotherms with different thermoregulatory


two honeybee sister species: *Apis cerana* and *Apis mellifera*. In *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology*, 198, pp. 319–323.


**Chapters in books**


Theology

Dean’s Office

Journal articles


Biblical and Religious Studies

Journal articles


Church History and Church Polity

Journal articles


Chapters in books


Dogmatics and Christian Ethics

Journal articles


Chapters in books


Authored books


New Testament Studies

Journal articles


**Conference contributions**


**Old Testament Studies**

**Journal articles**


**Chapters in books**


**Authored books**


**Conference contributions**


**Practical Theology**

**Journal articles**


### Chapters in books


### Authored books


### Reformed Theology College

### Journal articles


### Science of Religion and Missiology

### Journal articles


Faculty of Veterinary Science
Veterinary Science

Dean's Office

Journal articles


Conference contributions


Anatomy and Physiology

Journal articles


Madekurozwa MN: 2012. An immunohistochemical study of ovarian follicle histogenesis in the early post-hatch Japanese quail (Coturnix
coturnix japonica), In *Anatomia Histologia Embryologia*, 41, pp. 79–86.


**Companion Animal Clinical Studies**

**Journal articles**


Equine Research Centre

Journal articles


Onderstepoort Veterinary Academic Hospital

Journal articles


Paraclinical Sciences

Journal articles


Adamu M, Naidoo V, Eloff JN: 2012. Some southern African plant species used to treat...
helminth infections in ethnoveterinary medicine have excellent antifungal activities. In BMC Complementary and Alternative Medicine, 12(213), pp. 1–7.


Steyl JCA, Prozesky L, Stoltz WH, Lawrence JA: 2012. Theileriosis (Cytaxzoonosis) in Roan antelope (Hippotragus equinus); Field exposure to infection and identification of potential vectors. In Onderstepoort Journal of Veterinary Research, 79(1).


Labuschagne A, Spencer BT, Picard A, Williams M: 2012. An investigation to determine the cause of haemorrhagic enteritis in commercial pig


Production Animal Studies

Journal articles

Nothling JO, Dos Santos I: 2012. Which fields under a coverslip should one assess to estimate sperm motility? In Theriogenology, 77, pp. 1686–1697.


University of Pretoria Biomedical Research Centre

Journal articles

Adamu M, Naidoo V, Eloff JN: 2012. Some southern African plant species used to treat helminth infections in ethnoveterinary medicine have excellent antifungal activities. In BMC Complementary and Alternative Medicine, 12(213), pp. 1–7.


Veterinary Tropical Diseases

Journal articles


Harrison A, Robb GN, Bennett NC, Horak IG: 2012. Differential feeding success of two paralysis – inducing ticks, Rhipicephalus warburtoni and Ixodes rubicundus on sympatric small mammal...


Onderstepoort Veterinary Academic Hospital

Journal articles

Gordon Institute of Business Science

Journal articles


Conference contributions
