

# WATER SA

ISSN 0378-4738

VOLUME 38 (2012)

## CONTENTS AND AUTHOR INDEX

Supplement to *Water SA* Vol. 39 No. 1

### REVIEWERS

The following list recognises all of the individuals who served as reviewers for Water SA in 2012 or who reviewed papers which were published or found to be unsuitable for publication in 2012. We would like to thank them all most sincerely for their willingness and for the time and effort expended in reviewing these papers in the interests of Water SA. (The number in brackets indicates the number of papers reviewed.)

Abraham TN	Chen Y-R	Fergusson R	Howard J
Adams S	Chevallier L	Ferro OAM	Hsu S-Y
Adeniyi A	Chimuka L (2)	Fievet P	Huang W-C
Alam U	Cho YI	Forbes P	Hughes DA
Andrew T	Christodoulou S	Foster S	Issa TB
Annandale J	Chung E-S	Fourie S	Itoh N
Ardali Y	Cobbing J	Fourie G	Jackson B
Arregui F	Crafford J	Foxcroft L	Jackson V
Bahremand A	Crous P	Francis RC	Jacobs SM
Baki A	Cruañas R	Friedrich E	Janse van Vuuren S
Barbarick K	Da Silva RDR	Froneman W	Jayasuriya N
Barnes J	Danert K	Fyfield T (2)	Jeng D-S
Barnes K	Day J	Garau MA	Jolly I
Basinger M	De Clerck K	Garcia-Rodriguez F	Jovanovic N
Beekman H	De Clercq WP	Garduno H	Joyce E
Berg JD (2)	De Gussem K	Gaydon P (2)	Józwiakowski K
Bermejo Barrera P	De Smedt F	Gericke OJ (2)	Julies E
Betts AK	De Villiers AJ	Ghaly M	Kapley A
Beukes D	De Villiers S (2)	Gheju M	Karar E
Bhatnagar A	Dennis I	Gieskes JM	Kempen E
Blecken G-T	Dennis R	Gill L	Kempster P
Bojic A	Deurer M	Gillot S	Khamis M
Bollmohr S	Diamadopoulos E	Görgens A	Kim S
Booty WG (2)	Dias A	Gorgens J	Kleynhans T (2)
Botha H	Dottori F	Grenfell MC	Kongo V
Bouma J	Du Plessis A	Griffioen ML	Kotze D
Bouwman HA	Du Plessis FJ	Grimason A	Kramer S
Bradley C	Du Preez HH	Güell Saperas C	Kriek J
Braune E (2)	Dyssel M	Guentzel J	Kruger A
Britz TJ	Eberbach P	Guerra DL	Kuhn A
Brouckaert C	Ehlers MM (2)	Guo J	Kumar A
Burger M	Elliott HA	Gush M	Kwaambwa HM
Burgers C	Emongor V	Harding K	La Scola B
Burrows HD	Engelbrecht F	Harmse T (2)	Labhsetwar N
Burton B	Ergas S	Harris C	Lahav OJ
Callanan L	Ernst M	Hart R	Laker MC (2)
Canals A	Everard M	Hasson D	Landis W
Carabineiro S	Everson C	He C	Le Grange L
Chapman A	Faber M	Healy RW	Le Roux C
Chen J	Farnleitner A	Hjorth P	Le Roux W (2)

Leat N	Ndambuki JM	Rocha MJ	Tay C
Lee S-J	Ndlovu S	Rocha-Filho RC	Tempelhoff JWN
Lema Rodicio JM	Nell JP	Rossouw N	Tennant W
Leopold K	Newman B	Rossouw PS	Terblanche D
Levin M	Nomqophu W	Roux DJ	Theron J
Levy J	Noubactep C	Rowlston WS	Thierfelder C
Lin J	Nyamangara J	Rozanov A	Thomas V
Lofrano G	Oberholster P	Rubio Coque JJ	Thompson P
Louw D	Onyango MS (2)	Rust U	Thornton JA (4)
Ma H	Ostfeld A	Sarma D (2x)	Thullner M
Madani K	Osunmakinde IO	Sawunyama T (2)	Tilahun K
Maeng SK	Pacala A	Schaefer L	Titus R
Magadla D	Palmer A	Schmidt S	Torto N
Malan H	Palmer I	Schreiner B	Tredoux G
Malherbe J	Pandey S	Schutte CF	Vaclav J
Mamba BB	Parolo ME	Schwarze M	Van den Brink P
Mango L	Parsons J	Seker DZ	Van der Waal BCW
Mans J	Patel RK	Sellgren A	Van Heerden P
Mantzavinos D	Paterson A	Senzanje A	Van Rooyen C
Maree J	Pegram G	Sheridan C	Van Staden S
Marti E	Pereira FL	Sierra J	Van Tonder GJ (2)
Masayandima M	Perissinotto R	Sigge GO (2)	Van Vuren J
Matthews N	Petrik L	Silberbauer M	Van Vuuren S
Mbareck C	Pettit N	Simaika JP	Van Wyk A
McCartney M	Pham Do KH	Simeonov V	Van Zyl JE (3)
Mhlanga S	Phillips DH	Sinclair S	Van Zyl WP
Michen B (2)	Pieters R	Sinske B	Vanclay F
Mihaly L	Pietersen K	Skelton P	Vermeulen D
Misra RK	Pillay K	Smart M	Visser M
Mitchell S	Pillay P	Smithers J	Wade P (2)
Mjoli N	Pirra AJD	Somerset V	Wahid SM
Modise J	Pisaniello J	Sötemann S (2)	Wang Z
Mogamedi KLM	Pool EJ	Soyez K	Waryo T
Mohan S	Potgieter N	Steel A	Wepener V
Mohanty AK	Potgieter-Vermaak S	Stephenson D (2)	Wiechers H (2)
Mollel N	Pybus P	Still D	Winde F
Moseki C	Quinn L	Stirzaker R	Witthueser K (2)
Moyce W	Raichur A	Stone D	Wolski P
Muir D	Rajagopaul R	Strachan L	Wood A
Müller JJ	Raschid L	Summerton M	Worthington AC
Mungray AA	Ratnayake U	Swart P	Woyessa YE
Munodawafa A	Ravenscroft P	Swartz C	Wuta M
Murillo R	Regneri M	Tadross M	Xu Y
Murray K	Reinten E	Talbot F (2)	Xue J
Murray R	Riddell E	Tang H	Yaghmur A
Naude Y	Rivers-Moore N	Tarpanelli A	Yoder R
Nauges C	Robins N	Tavana M	Zhang Z

The chemical oxidation of lignin found in Sappi Saiccor dissolving pulp mill effluent B Moodley, DA Mulholland and HC Brookes .....	1
Removal and transformation of hexavalent chromium in sequencing batch reactor Siew-Leng Loo, Kwok-Yii Leong and Poh-Eng Lim .....	9
Diffusive gradient in thin-films (DGT) as risk assessment and management tools in the Central Witwatersrand Goldfield, South Africa H Mengistu, O Roeyset, A Tessema, TA Abiye and MB Demlie .....	15
Application of magnesium hydroxide and barium hydroxide for the removal of metals and sulphate from mine water V Bologo, JP Maree and F Carlsson .....	23
Identification of metal-tolerant organisms isolated from the Plankenburg River, Western Cape, South Africa VA Jackson, AN Paulse, JP Odendaal, S Khan and W Khan .....	29
A comparative assessment of chemical contaminant removal by three household water treatment filters Themba O Mahlangu, Bhekhe B Mamba and Maggie NB Momba .....	39
A case study to determine the efficacy of ozonation in purification processes S Morrison, A Venter and S Barnard .....	49
The hydrodynamic response of a semi-arid headwater wetland to technical rehabilitation interventions ES Riddell, SA Lorentz and DC Kotze .....	55
Comparison of methods for determining unsaturated hydraulic conductivity in the wet range to evaluate the sensitivity of wetting front detectors GT Adhanom, RJ Stirzaker, SA Lorentz, JG Annandale and JM Steyn .....	67
The effect of crop residue layers on evapotranspiration, growth and yield of irrigated sugarcane FC Olivier and A Singels .....	77
River water quality in the northern sugarcane-producing regions of South Africa and implications for irrigation: A scoping study Michael van der Laan, Rianto van Antwerpen and Keith L Bristow .....	87
Nutrient limitation of phytoplankton in five impoundments on the Manyame River, Zimbabwe Pamela Tendaupenyu .....	97
Promoting uptake and use of conservation science in South Africa by government Nikki Funke and Shanna Nienaber .....	105
The role of statutory and local rules in allocating water between large- and small-scale irrigators in an African river catchment Hans C Komakech, Madison Condon and Pieter van der Zaag .....	115
The extent of on-site leakage in selected suburbs of Johannesburg MFT Lugoma, JE van Zyl and AA Ilemobade .....	127
Swimming pools and intra-city climates: influences on residential water consumption in Cape Town Raymond Siebrits .....	133
<i>Technical note</i> Effects of free-surface on design charts for open channels Majid Rahimpour .....	145
<i>Technical note</i> On modifying the Arrhenius equation to compensate for temperature changes for reactions within biological systems Craig Sheridan, Jochen Petersen and Johann Rohwer .....	149

Regional-scale risk assessment methodology using the Relative Risk Model (RRM) for surface freshwater aquatic ecosystems in South Africa GC O'Brien and V Wepener .....	153
Prediction of water temperature metrics using spatial modelling in the Eastern and Western Cape, South Africa NA Rivers-Moore, S Mantel and HF Dallas.....	167
The response of microalgal biomass and community composition to environmental factors in the Sundays Estuary Daisy Kotsedi, Janine B Adams and Gavin C Snow .....	177
Synthetic monthly flow duration curves for the Cape Floristic Region, South Africa Allen Hope and Ryan Bart .....	191
The water balance of a seasonal stream in the semi-arid Western Cape (South Africa) Richard DH Bugan, Nebo Z Jovanovic and Willem P de Clercq .....	201
Identification of sources and infiltration regimes of nitrate in the semi-arid Kalahari: Regional differences and implications for groundwater management S Stadler, AS Talma, G Tredoux and J Wrabel.....	213
Quantifying rainfall-runoff relationships on the Mieso Hypo Calcic Vertisol ecotope in Ethiopia WA Welderufael, PAL le Roux and M Hensley .....	225
Infiltration and runoff losses under fallowing and conservation agriculture practices on contrasting soils, Zimbabwe G Nyamadzawo, P Nyamugafata, M Wuta, J Nyamangara and R Chikowo.....	233
Monetary valuation of salinity impacts and microbial pollution in the Olifants Water Management Area, South Africa WJ de Lange, BK Mahumani, M Steyn and SHH Oelofse.....	241
The perceptions of research values and priorities in water resource management from the 3 <sup>rd</sup> Orange River Basin Symposium Falko T Buschke and Surina Esterhuysen.....	249
An ion-imprinted polymer for the selective extraction of mercury(II) ions in aqueous media Bareki S Batlokwa, Luke Chimuka, Zenixole Tshentu, Ewa Cukrowska and Nelson Torto.....	255
Optimal synthesis of a Ni(II)-dimethylglyoxime ion-imprinted polymer for the enrichment of Ni(II) ions in water, soil and mine tailing samples Modise Rammika, Godfred Darko and Nelson Torto .....	261
The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies L Mihaly Cozmuta, A Mihaly Cozmuta, A Peter, C Nicula, E Bakatula Nsimba and H Tutu.....	269
Fluoride removal performance of phosphoric acid treated lime: breakthrough analysis and point-of-use system performance Cyprian Murutu, Maurice S Onyango, Aoyi Ochieng and Fred AO Otieno.....	279
Sensitivity study of reduced models of the activated sludge process, for the purposes of parameter estimation and process optimisation: Benchmark process with ASM1 and UCT reduced biological models S du Plessis and R Tzoneva .....	287
Effects of tailwater depth on spillway aeration Egemen Aras and Mehmet Berkun .....	307
Catchment management agencies as crucibles in which to develop responsible leaders in South Africa MC Dent.....	313
<i>Review:</i> The use of water resources for inland fisheries in South Africa JR McCafferty, BR Ellender, OLF Weyl and PJ Britz.....	327
<i>Review:</i> Impacts of invasive alien plants on water quality, with particular emphasis on South Africa J Chamier, K Schachtschneider, DC Le Maitre, PJ Ashton and BW van Wilgen.....	345

PREFACE: Groundwater: Our source of security in an uncertain future S Adams, J Cobbing, I Dennis and K Riemann .....	357
Managed groundwater development for water-supply security in sub-Saharan Africa: Investment priorities Stephen Foster, Albert Tuinhof and Frank van Steenbergen.....	359
Sand, salt and water in the Stampriet Basin, Namibia: Calculating unsaturated zone (Kalahari dunefield) recharge using the chloride mass balance approach AEC Stone and WM Edmunds .....	367
Evaluation of factors influencing transmissivity in fractured hard-rock aquifers of the Limpopo Province Martin Holland.....	379
Can groundwater be successfully implemented as a bulk water resource within rural Limpopo Province? Analysis based on GRIP datasets Willem du Toit, Martin Holland, Reinhardt Weidemann and Fanie Botha.....	391
Water-balance approach for assessing potential for smallholder groundwater irrigation in sub-Saharan Africa P Pavelic, V Smakhtin, G Favreau and KG Villholth .....	399
A groundwater-planning toolkit for the main Karoo basin: Identifying and quantifying groundwater-development options incorporating the concept of wellfield yields and aquifer firm yields R Murray, K Baker, P Ravenscroft, C Musekiwa and R Dennis .....	407
Climate change vulnerability index for South African aquifers Ingrid Dennis and Rainier Dennis.....	417
Community-groundwater compatibility assessments: An approach towards sustainable groundwater development JA Myburgh and A Hugo .....	427
Ensuring water supply for all towns and villages in the Eastern Cape and Western Cape Provinces of South Africa ER Hay, K Riemann, G van Zyl and I Thompson .....	437
A proposed groundwater management framework for municipalities in South Africa K Riemann, N Chimboza and M Fubesi.....	445
Groundwater governance in South Africa: A status assessment K Pietersen, HE Beekman, M Holland and S Adams .....	453
Valuing groundwater: A practical approach for integrating groundwater economic values into decision making – A case study in Namibia, Southern Africa C Bann and SC Wood .....	461

An inter-comparison of model-simulated east–west climate gradients over South Africa Mark R Jury .....	467
Variation in VIP latrine sludge contents BF Bakare, KM Foxon, CJ Brouckaert and CA Buckley .....	478
Implementing a protocol for selection and prioritisation of organic contaminants in the drinking water value chain: Case study of Rand Water, South Africa EJ Ncube, K Voyi and H du Preez .....	487
Cr(VI) formation during ozonation of Cr-containing materials in aqueous suspension – implications for water treatment W van der Merwe, JP Beukes and PG van Zyl .....	505
Characterising the reactivity of metallic iron in Fe <sup>0</sup> /As-rock/H <sub>2</sub> O systems by long-term column experiments C Noubactep .....	511
Comparative study of EVA-Cloisite® 20A and heat-treated EVA-Cloisite® 20A on heavy-metal adsorption properties Derrick S Dlamini, Ajay K Mishra and Bhekie B Mamba .....	519
Preparation and characterisation of tamarind 4-hydroxybenzoic acid (THBA) resin and its use in extraction of heavy metal ions from industrial wastewater AV Singh and Indraj Kumar Kumawat .....	529
Fenton and solar photo-Fenton processes for the removal of chlorpyrifos insecticide in wastewater Youssef Samet, Emna Hmani and Ridha Abdelhédi .....	537
Spectrophotometric determination of fluoride in drinking water using aluminium complexes of triphenylmethane dyes Zaher Barghouthi and Sameer Amereih .....	543
A comparative life cycle assessment of process water treatment technologies at the Secunda industrial complex, South Africa C Ras and H von Blottnitz .....	549
Prioritising alternatives for maintenance of water distribution networks: a group decision approach Flavio Trojan and Danielle Costa Morais .....	555
Operational optimisation of water supply networks using a fuzzy system Saulo de Tarso Marques Bezerra, Simplicio Arnaud da Silva and Heber Pimentel Gomes .....	565
Comprehensive entropy weight observability-controllability risk analysis and its application to water resource decision-making Xun-Gui Li, Xia Wei and Qiang Huang .....	573
Assessment of microbial contamination of groundwater in upper Limphasa River catchment, located in a rural area of northern Malawi Thokozani Kanyerere, Jonathan Levy, Yongxin Xu and John Saka .....	581
Nitrogen, phosphorus and silicon in riparian ecosystems along the Berg River (South Africa): The effect of increasing human land use Eric Struyf, Kris D Bal, Hans Backx, Dirk Vrebos, Annelies Casteleyn, Eric De Deckere, Jonas Schoelynck, Luc Brendonck, Lincoln M Raitt and Patrick Meire .....	597
Nitrate-induced changes and effect of varying total nitrogen to total phosphorus ratio on the phytoplankton community in Lake Chivero, Zimbabwe: microcosm experiments Lindah Mhlanga and Wilson Mhlanga .....	607
Sludge pipe flow pressure drop prediction using composite power-law friction factor–Reynolds number correlations based on different non-Newtonian Reynolds numbers R Haldenwang, APN Sutherland, VG Fester, R Holm and RP Chhabra .....	615
Simulation of hydrological processes in the Simiyu River, tributary of Lake Victoria, Tanzania Justus Rwetabula, Florimond De Smedt and Menahem Rebhun .....	623
<i>Review:</i> Methods for design flood estimation in South Africa JC Smithers .....	633

Using multivariate statistical analysis to assess changes in water chemistry in sections of the Vaal Dam catchment between 1991 and 2008 Theresa L Bird and Mary C Scholes .....	647
The performance of plant species in removing nutrients from stormwater in biofiltration systems in Cape Town SG Milandri, KJ Winter, SBM Chimphango, NP Armitage, DN Mbui, GE Jackson and V Liebau .....	655
Seasonal variations of water and sediment quality parameters in endorheic reed pans on the Mpumalanga Highveld AR de Klerk, LP de Klerk, J Chamier and V Wepener .....	663
Sorptive removal of ciprofloxacin hydrochloride from simulated wastewater using sawdust: Kinetic study and effect of pH Sunil Kumar Bajpai, Manjula Bajpai and Neelam Rai .....	673
Aerobic biotransformation of 2, 4, 6-trichlorophenol by <i>Penicillium chrysogenum</i> in aqueous batch culture: Degradation and residual phytotoxicity Nicolás Aranciaga, Ignacio Durruty, Jorge F González and Erika A Wolski .....	683
Photocatalytic degradation of geosmin: Reaction pathway analysis Emomotimi E Bamuza-Pemu and Evans MN Chirwa .....	689
Natural organic matter (NOM) in South African waters: NOM characterisation using combined assessment techniques TI Nkambule, RWM Krause, J Haarhoff and BB Mamba .....	697
A new spectrophotometric method for determination of residual polydiallyldimethylammonium chloride flocculant in treated water based on a diazotization-coupled ion pair Isaac W Mwangi, J Catherine Ngila and Patrick Ndungu .....	707
The distribution of inherent phosphorus in fifteen water treatment residues from South Africa M Norris and LW Titshall .....	715
Point-of-use water purification using clay pot water filters and copper mesh AJ Varkey and MD Dlamini .....	721
Field testing of polymeric mesh and ash-based ceramic membranes in a membrane bioreactor (MBR) for decentralised sewage treatment PK Tewari, RK Singh, VS Batra and M Balakrishnan .....	727
Fluoride concentrations in groundwater and impact on human health in Siloam Village, Limpopo Province, South Africa John Ogoni Odiyo and Rachel Makungo .....	731
Assessment of <i>in-situ</i> abundance dynamics of enterobacteria and total heterotrophic aerobic bacteria in groundwater in the equatorial region of Central Africa Moïse Nola, Jean Samuel Eheth, Mireille E Nougang, Marlyse L Mougang, Olive V Noah Ewoti, François Krier, Nour-Eddine Chihib, Pierre Servais, Jean-Pierre Hornez and Thomas Njiné .....	737
Characteristics of local groundwater recharge cycles in South African semi-arid hard rock terrains: Rainfall-groundwater interaction E van Wyk, GJ van Tonder and D Vermeulen .....	747
Vulnerability of wastewater infrastructure of coastal cities to sea level rise: A South African case study Elena Friedrich and Dale Kretzinger .....	755
A short-range weather prediction system for South Africa based on a multi-model approach Stephanie Landman, Francois A Engelbrecht, Christien J Engelbrecht, Liesl L Dyson and Willem A Landman .....	765
Rainy season characteristics of the Free State Province of South Africa with reference to rain-fed maize production ME Moeletsi and S Walker .....	775
A socio-economic impact assessment of a project to identify and implement best management practices at the Zanyokwe Irrigation Scheme at farm level MC Tshuma and N Monde .....	783
An evaluation of the Contractor Development Model of Working for Water Anje Coetzer and Johann Louw .....	793
<i>Short communication:</i> Dairy farm borehole water quality in the greater Mangaung region of the Free State Province, South Africa L Esterhuizen, A Fossey and JFR Lues .....	803
<i>Short communication:</i> Rapid <i>in vitro</i> tests to determine the toxicity of raw wastewater and treated sewage effluents Rahzia Hendricks and Edmund John Pool .....	807
<i>Short communication:</i> Use of calcium sulphate dihydrate (CaSO <sub>4</sub> •2H <sub>2</sub> O) as an alternative to the conventional use of aluminium sulphate in the primary treatment of wastewater María C Vázquez-Almazán, Eusebio Ventura, Enrique Rico and Mario E Rodríguez-García .....	813
<i>Short communication:</i> Isolation and identification of bacterial pollutants from the Berg and Plankenburg Rivers in the Western Cape, South Africa AN Paulse, VA Jackson, S Khan and W Khan .....	819
<i>Technical note:</i> Reduction of Langelier index of cooling water by electrolytic treatment with stainless steel electrode Rapeepat Rungvavmanee and Chantarporn Phalakornkule .....	825
<i>Technical note:</i> Guide to groundwater monitoring for the coal industry MR Barnes and PD Vermeulen .....	831
<i>Comment on:</i> Funke and Nienaber S (2012) Promoting uptake and use of conservation science in South Africa by government ( <i>Water SA</i> 38 (1) 105-113) M Ngcobo and MC Mlambo .....	837

## AUTHOR INDEX

Page numbers in **bold** refer to sole or first author

Abdelhédi R.....	537	Du Plessis S .....	<b>287</b>	Mbui DN .....	655	Rwetabula J .....	<b>623</b>
Abiye TA.....	15	Du Preez H .....	487	McCafferty JR .....	<b>327</b>	Saka J .....	581
Adams JB.....	177	Du Toit W.....	<b>391</b>	Meire P .....	597	Samet Y .....	<b>537</b>
Adams S.....	<b>357</b> ; 453	Durruty I .....	683	Mengistu H.....	<b>15</b>	Schachtschneider K .....	345
Adhanom GT.....	<b>67</b>	Dyson LL .....	765	Mhlanga L .....	<b>607</b>	Schoelynck J .....	597
Amereih S.....	543	Edmunds WM .....	367	Mhlanga W .....	607	Scholes MC .....	647
Annandale JG.....	67	Eheth JS .....	737	Mihaly Cozmuta A .....	269	Servais P .....	737
Aranciaga N.....	<b>683</b>	Ellender BR .....	327	Mihaly Cozmuta L .....	<b>269</b>	Sheridan C .....	<b>149</b>
Aras E.....	<b>307</b>	Engelbrecht CJ .....	765	Milandri SG .....	<b>655</b>	Siebrits R .....	<b>133</b>
Armitage NP .....	655	Engelbrecht FA .....	765	Mishra AK .....	519	Singels A .....	77
Ashton PJ .....	345	Esterhuizen L .....	<b>803</b>	Mlambo MC .....	837	Singh AV .....	<b>529</b>
Backx H .....	597	Esterhuysen S .....	249	Moeletsi ME .....	<b>775</b>	Singh RK .....	727
Bajpai M .....	673	Ewoti OVN .....	737	Momba MNB .....	39	Smakhtin V .....	399
Bajpai SK .....	<b>673</b>	Favreau G .....	399	Monde N .....	783	Smithers JC .....	<b>633</b>
Bakare BF .....	<b>478</b>	Fester VG .....	615	Moodley B .....	<b>1</b>	Snow GC .....	177
Baker K .....	407	Fossey A .....	803	Morais DC .....	555	Stadler S .....	<b>213</b>
Bal KD .....	597	Foster S .....	<b>359</b>	Morrison S .....	<b>49</b>	Steyn JM .....	67
Balakrishnan M .....	727	Foxon KM .....	478	Moungang ML .....	737	Steyn M .....	241
Bamuza-Pemu EE .....	<b>689</b>	Friedrich E .....	<b>755</b>	Mulholland DA.....	1	Stirzaker RJ .....	67
Bann C .....	<b>461</b>	Fubesi M .....	445	Murray R .....	<b>407</b>	Stone AEC .....	<b>367</b>
Barghouthi Z .....	<b>543</b>	Funke N .....	<b>105</b>	Murutu C .....	<b>279</b>	Struyf E .....	<b>597</b>
Barnard S .....	49	Gomes HP.....	565	Musekiwa C .....	407	Sutherland APN .....	615
Barnes MR .....	<b>831</b>	González JF .....	683	Mwangi IW .....	<b>707</b>	Talma AS .....	213
Bart R .....	191	Haarhoff J .....	697	Myburgh JA .....	<b>427</b>	Tendaupenyu P .....	<b>97</b>
Batlokwa BS .....	<b>255</b>	Haldenwang R .....	<b>615</b>	Ncube EJ .....	<b>487</b>	Tessema A.....	15
Batra VS .....	727	Hay ER .....	<b>437</b>	Ndungu P .....	707	Tewari PK .....	<b>727</b>
Beekman HE .....	453	Hendricks R .....	<b>807</b>	Ngcobo M .....	<b>837</b>	Thompson I .....	437
Berkun M .....	307	Hensley M .....	225	Ngila JC .....	707	Titshall LW .....	715
Beukes JP.....	505	Hmani E .....	537	Nicula C .....	269	Torto N.....	255; 261
Bezerra STM.....	<b>565</b>	Holland M.....	<b>379</b> ; 391; 453	Nienaber S .....	105	Tredoux G .....	213
Bird TL .....	<b>647</b>	Holm R .....	615	Njiné T .....	737	Trojan F .....	<b>555</b>
Bologo V.....	<b>23</b>	Hope A .....	<b>191</b>	Nkambule TI .....	<b>697</b>	Tshentu Z .....	255
Botha F .....	391	Hornez J-P.....	737	Nola M .....	<b>737</b>	Tshuma MC .....	<b>783</b>
Brendonck L .....	597	Huang Q .....	573	Norris M .....	<b>715</b>	Tuinhof A .....	359
Bristow KL .....	87	Hugo A .....	427	Noubactep C .....	<b>511</b>	Tutu H .....	269
Britz PJ .....	327	Ilemobade AA .....	127	Nougang ME .....	737	Tzoneva R .....	287
Brookes HC.....	1	Jackson GE .....	655	Nsimba EB .....	269	Van Antwerpen R .....	87
Brouckaert CJ .....	478	Jackson VA .....	<b>29</b> ; 819	Nyamadzawo G .....	<b>233</b>	Van der Laan M .....	<b>87</b>
Buckley CA .....	478	Jovanovic NZ .....	201	Nyamangara J .....	233	Van der Merwe W.....	<b>505</b>
Bugan RDH .....	<b>201</b>	Jury MR .....	<b>467</b>	Nyamugafata P .....	233	Van der Zaag P .....	115
Buschke FT .....	<b>249</b>	Kanyerere T .....	<b>581</b>	O'Brien GC .....	<b>153</b>	Van Steenberg F .....	359
Carlsson F.....	23	Khan S .....	29; 819	Ochieng A .....	279	Van Tonder GJ .....	747
Casteleyn A .....	597	Khan W.....	29; 819	Odendaal JP .....	29	Van Wilgen BW .....	345
Chamier J .....	<b>345</b> ; 663	Komakech HC .....	<b>115</b>	Odiyo JO .....	<b>731</b>	Van Wyk E .....	<b>747</b>
Chhabra RP .....	615	Kotsedi D .....	<b>177</b>	Oelofse SHH .....	241	Van Zyl G .....	437
Chihib N-E .....	737	Kotze DC .....	55	Olivier FC .....	<b>77</b>	Van Zyl JE .....	127
Chikowo R .....	233	Krause RWM .....	697	Onyango MS .....	279	Van Zyl PG .....	505
Chimboza N .....	445	Kretzinger D .....	755	Otieno FAO .....	279	Varkey AJ .....	<b>721</b>
Chimphango SBM .....	655	Krier F .....	737	Paulse AN .....	29; <b>819</b>	Vázquez-Almazán MC .....	<b>813</b>
Chimuka L .....	255	Kumawat IK .....	529	Pavelic P .....	<b>399</b>	Venter A .....	49
Chirwa EMN .....	689	Landman S .....	<b>765</b>	Peter A .....	269	Ventura E .....	813
Cobbing J .....	357	Landman WA .....	765	Petersen J .....	149	Vermeulen D .....	747
Coetzer A .....	<b>793</b>	Le Maitre DC .....	345	Phalakornkule C .....	825	Vermeulen PD .....	831
Condon M .....	115	Le Roux PAL .....	225	Pietersen K .....	<b>453</b>	Villholth KG .....	399
Cukrowska E .....	255	Leong K-Y .....	9	Pool EJ .....	807	Von Blottnitz H .....	549
Da Silva SA .....	565	Levy J .....	581	Rahimpour M .....	<b>145</b>	Voyi K .....	487
Dallas HF .....	167	Li X-G.....	<b>573</b>	Rai N .....	673	Vrebos D .....	597
Darko G .....	261	Liebau V .....	655	Raitt LM .....	597	Walker S .....	775
De Clercq WP .....	201	Lim P-E .....	9	Rammika M.....	<b>261</b>	Wei X .....	573
De Deckere E .....	597	Loo S-L .....	<b>9</b>	Ras C .....	<b>549</b>	Weidemann R .....	391
De Klerk AR .....	<b>663</b>	Lorentz SA .....	55; 67	Ravenscroft P .....	407	Welderufael WA .....	<b>225</b>
De Klerk LP .....	663	Louw J .....	793	Rebhun M .....	623	Wepener V .....	153; 663
De Lange WJ .....	<b>241</b>	Lues JFR .....	803	Rico E .....	813	Weyl OLF .....	327
De Smedt F .....	623	Lugoma MFT .....	<b>127</b>	Riddell ES .....	<b>55</b>	Winter KJ .....	655
Demlie MB .....	15	Mahlangu TO .....	<b>39</b>	Riemann K.....	357; 437; <b>445</b>	Wolski EA .....	683
Dennis I .....	357; <b>417</b>	Mahumani BK .....	241	Rivers-Moore NA .....	<b>167</b>	Wood SC .....	461
Dennis R .....	417; 407	Makungo R .....	731	Rodríguez-García ME .....	813	Wrabel J .....	213
Dent MC .....	<b>313</b>	Mamba BB.....	39; 519; 697	Roeyset O .....	15	Wuta M .....	233
Dlamini DS .....	<b>519</b>	Mantel S.....	167	Rohwer J .....	149	Xu Y .....	581
Dlamini MD .....	721	Maree JP.....	23	Rungvavmanee R .....	<b>825</b>		