

LIST OF PUBLICATIONS - PROF. MNB MOMBA

Refereed/Peer-Reviewed Articles in Accredited Journals

1. **Momba MNB** and Cloete (1996) The relationship of biomass to pH of *Acinetobacter junii* in activated sludge mixed liquor. *Water Research*, 30 (5), 5.323)
2. **Momba MNB** and Cloete (1996) Biomass relationship to growth and pH of *Pseudomonas fluorescens*, *Escherichia coli* and *Acinetobacter radior* in a mixed liquor medium. *Journal of Industrial Microbiology*, 16, 364-369. (IF-1.21)
3. **Momba MNB**, Cloete TE, Venter SN and Kfir R (1998) Evaluation of disinfection processes on the formation of biofilms in potable surface water distribution systems. *Water Science and Technology*, 38 (8-9), 283-289. (IF-1.21)
4. **Momba MNB**, Cloete TE, Venter SN and Kfir R (1999) Examination of the behaviour of coliform bacteria in biofilms established in laboratory-scale units receiving chlorinated and chloraminated groundwater. *Water Research*, 33 (13), 2937-2940. (IF-5.323)
5. **Momba MNB**, Kfir R, Venter SN and Cloete TE (2000) An overview of biofilm formation in potable water distribution systems and its impact on the deterioration of water quality. *Water South Africa*. 26 (1), 59-66. (IF-0.80)
6. **Momba MNB**, Cloete TE, Venter SN and Kfir R (2000) Influence of disinfection processes on microbial quality of potable groundwater in distribution systems. *Journal of Water Supply Research and Technology - Aqua* 49 (1), 23-33. (IF-0.52)
7. **Momba MNB** and Binda (2002) Combining chlorination and monochloramination processes for the inhibition of biofilm formation in drinking surface water system models. *Journal of Applied Microbiology* 92, 641-648. (IF-2.38)
8. **Momba MNB** and P. Kaleni (2002) Regrowth and survival of indicator micro-organisms on the surfaces of household containers used for the storage of drinking water in rural communities of South Africa. *Water Research*. 36, 3023-3028. (IF-5.323)
9. **Momba MNB** and TL Notshe (2003) The microbiological quality of groundwater-derived drinking water after long storage in household containers in a rural community of South Africa. *Journal of Water Supply: Research and Technology-Aqua* (2003) 52 (1): 67-77.
10. **Momba MNB**, Ndaliso S and Binda MA (2003) Effect of a combined chlorine-monochloramine process on the inhibition of biofilm regrowth in potable water systems. *Journal of Water Supply* 3 (1-2), 215-221. (IF-0.50)



11. **Momba MNB** and Makala (2004) Comparing the effect various pipe materials on biofilm formation in chlorinated and combined chlorine-chloraminated water systems. *Water SA*.30 (2), 175-182. (IF-0.809)
12. **Momba MNB**, Z Tyafa and N Makala (2004) Rural water treatment plants fail to provide potable water to their consumers: the Alice water treatment plant in the Eastern Cape Province of South Africa. *South African Journal of sciences*, 100, May/June, 307-310. (IF-1.031)
13. Obi CL., PO Bessong, **MNB Momba**, N Potgieter, A Samie, and EO Igumbor (2004) Profiles of antibiotic susceptibilities of bacterial isolates and physicochemical quality of water supply in rural Venda communities, South Africa. *Water SA*,30 (4) 515-520. (IF-0.809)
14. **Momba MNB**, N. Makala, B Brouckaert, Z. Tyafa, P. Thompson ad AC. Buckley (2004) Improving the efficiency and sustainability of disinfection at a small rural water treatment plant. *Water SA*. 30(5), 617-622. (IF-0.809)
15. **Momba MNB**, Makala N., Tyafa Z and BM Brouckaert (2005) A model partnership for sustainable production of safe drinking water for rural communities in South Africa. *South African Journal of Science*, 101,July/August , 335-336. (IF-1.031)
16. **Momba MNB**, V.K. Malakate and J. Theron (2006) *Abundance of pathogenic Escherichia coli, Salmonella typhimurium and Vibrio cholerae in Nkonkobe drinking water sources.* *Journal of Water Health* 04, 289-296. (IF-1.458)
17. Obi CL, Onabolu B, **MMB Momba**, JO Igumbor, J Ramalivhana, PO Bessong, EJ Van Rensburg, M Lukoto (Diseased), E.Green, TB, Mulaudzi (2006). The interesting Cross-paths of HIV/AIDS and Water in Southern Africa with special reference to South Africa. *Water SA* 32(3): 323-343. (IF-0.809)
18. **Momba MNB.**, Tyafa Z , Makala N ., Brouckaert B. M and Obi C. L. (2006) Safe drinking water still a dream in rural areas of South Africa. Case Study : The Eastern Cape Province . *Water SA* 32 (5) : 715-720. (IF-0.809)
19. **Momba MNB**, Osode AN and Sibewu M (2006) The Impact of inadequate wastewater treatment on the receiving water bodies – Case study: Buffalo City and Nkonkobe Municipalitis of the Eastern Cape. *Water SA* 32(5): 687-692. (IF-0.809)
20. Obi CL., Ramalivhana J, **Momba MNB**, Onabulu B, Igumbor JO, Lukoto M, Mulaudzi TB, Jansen van Rensburg EL, Green E and Ndou S (2007) Antibiotic resistance profiles and relatedness of enteric bacterial pathogens isolated from HIV/AIDS patients with and

- without diarrhoea and their household drinking water in rural communities in Limpopo Province-South Africa. *African Journal of Biotechnology*. 6 (8):1035-1047. (IF-0.57)
21. Obi CL, **Momba MNB**, Samie A, Igumbor JO, Green E and Musie E (2007) Microbiological, physico-chemical and management parameters impinging on the efficiency of small water treatment plants in the Limpopo and Mpumalanga Provinces of South Africa. *Water SA* 33(2): 1-9. (IF-0.809)
 22. Obi CL., Ramalivhana J, **Momba MNB**, Onabulu B, Igumbor JO (2007) Scope and Frequency of enteric bacterial pathogens isolated from HIV/AIDS patients and their household drinking water in Limpopo province. *Water SA* , 33 (4) 1-10. (IF-0.809)
 23. Akpor OB. **Momba MNB** and Okonkwo J. (2007) Phosphate and nitrate removal by selected wastewater protozoa isolates. *Pakistani Journal of Biological Sciences*,10(22),4008-4014. (IF: 0.73)
 24. Akpor OB, **Momba MNB** and Okonkwo J.(2008) Effect of Nutrient/Carbon Supplements on biological phosphate and nitrate uptake by protozoan isolates. *Journal of Applied Sciences*. 8 (3) 489-495.
 25. Akpor OB, **Momba MNB** and Okonkwo J.(2008) Relationship of carbon sources concentration to nutrient uptake by protozoa in Activated sludge mixed liquor. *Research Journal of Environmental Sciences* 2(5):330-339 (IF:0.41)
 26. Akpor OB, **Momba MNB** and Okonkwo J.(2008) The effects of pH and temperature on phosphate and nitrate by wastewater protozoa. *African Journal of Biotechnology*.,7(13), 2221-2226. (IF-0.57)
 27. Abongo BO, **Momba MNB** and Mwambakana JN (2008) Prevalence and antimicrobial susceptibility of *Escherichia coli* O157:H7 in vegetables sold in Amathole district, Eastern Cape Province of South Africa. *Journal of Food Protection* 71 (4), 816-819. (IF-1.849)
 28. Abongo BO, **Momba MNB** and Rodda N (2008) Health Risk of *Escherichia coli* O157:H7 in drinking water and meat and meat products and vegetables to diarrheic confirmed and non-confirmed HIV/AIDS patients. *Journal of Applied Sciences* 8(8):1453-1461 (IF)
 29. Abongo BO, **Momba MNB** and Mwambakana JN (2008) Prevalence of *Escherichia coli* O157:H7 among diarrhoeic HIV/AIDS patients in the Eastern Cape province –South Africa. *Pakistani Journal of Biological Sciences*, 11(8), 1066-1075 (IF 0.73)
 30. Abongo BO and **Momba MNB** (2008) Prevalence and potential Link between *E. coli* O157:H7 isolated from drinking water, meat and vegetables and stools of diarrhoeic confirmed and non-confirmed HIV/AIDS patients in the Amathole District – South Africa.

- Journal of Applied Microbiology. *Journal of Applied Microbiology* **105**, 424-431. (IF-2.38)
31. Sibewu M, **Momba MNB** and Okoh AL (2008) Protozoan fauna and abundance in aeration tanks of 3 municipal wastewater treatment plants in the Eastern Cape province of South Africa. *Journal of Applied Sciences*.8(11),2112-2117. (IF)
 32. **Momba MNB**, Abongo BO and Mwambakana JN (2008) Prevalence of enterohaemorrhagic *Escherichia coli* O157:H7 in drinking water and its predicted impact on diarrhoeic HIV/AIDS patients in the Amathole District, Eastern Cape Province, South Africa. *Water SA Water SA* ,34(3/7), 365372. (IF-0.809)
 33. Akpor OB, **Momba MNB**, Okonkwo JO and Coetzee MA (2008) Nutrient removal from activated sludge mixed liquor by wastewater protozoa in a laboratory –scale system batch reactor. *International Journal of Environmental Science and Technology* 5 (4), 463-470. (IF-2.334)
 34. Akpor OB, **Momba MNB** and Okonkwo JO (2008) Protozoan biomass relationship to nutrient and COD removal in activated sludge mixed liquor. *Biotechnology Journal* 3, 1-5. (IF-3.781)
 35. CL Obi, JO Igumbor, **MNB Momba** and A Samie (2008) Interplay of factors involving chlorine dose, turbidity flow capacity and pH on microbial quality of drinking water in small water treatment plants. *Water SA*, 34 (5), 565-572. (IF-0.809)
 36. Benard O. Abongo, **MNB Momba** (2009) Prevalence and characterization of *Escherichia coli* O157:H7 isolates from meat and meat products sold in Amathole District, Eastern Cape Province of South Africa. *Food Microbiology* 26 (2009) 173–176. (IF-3.682)
 37. **Momba MNB**, CL Obi and P. Thompson (2009) Survey of disinfection efficiency of small drinking water treatment plants: Challenges facing small water treatment plants in South Africa. *Water SA* 35 (4) 48-5494. (IF-0.80). (IF-0.809)
 38. Samie, A., Obi, C. L., Igumbor, J. O. and **Momba MNB**. (2009) Focus on 14 sewage treatment plants in the Mpumalanga Province, South Africa in order to gauge the efficiency of wastewater treatment. *African Journal of Biotechnology* Vol. 8 (14), pp. 3276-3285, 20 July, 2009. (IF-0.57)
 39. **Momba MNB** and M Sibewu (2009) Survival of somatic and F-RNA coliphages in treated wastewater effluents and their impact on viral quality of the receiving water bodies in the Eastern Cape Province. *Journal of Biological Sciences* 9(7) 648-654 (IF 0.63)

40. LP Lukhele, BB Mamba, **MNB Momba** and RWM Krause, (2010) Water disinfection using novel cyclodextrin polyurethanes containing silver nanoparticles supported on carbon nanotubes. *Journal of Applied Sciences* 10 (1):65-70 (IF)
41. Akpor OB and **MNB Momba** (2010) Relationship of protozoan biomass to phosphate and nitrate removal in activated sludge mixed liquor. *Biotechnology Journal*, (5), 304–313. (IF-3.781)
42. LP Lukhele, RWM Krause, BB Mamba and **MNB Momba** (2010) Synthesis of silver impregnated carbon nanotubes and cyclodextrin polymers for the disinfection of water. *Water SA*, 36(4):433-436. (IF-0.809)
43. **MNB Momba** and M Dungeni (2010) Interplay factors involved in the inadequate performance of four activated sludge systems in Northern Gauteng. *Journal of Environmental Science and Engineering*, 4(6/31): 1-12. (IF-0.94)
44. M Dungeni and **MNB Momba** (2010) The abundance of *Cryptosporidium* and *Giardia* spp in treated effluents produced by wastewater treatment plants in the Gauteng Province of South Africa. *Water SA* 36(4): 425-431. (IF-0.809)
45. M. Dungeni, M.P. Roux van der Merwe and **MNB Momba** (2010) The abundance of pathogenic bacteria and viral indicators in treated effluents produced by wastewater treatment plants in Gauteng, South Africa. *Water SA* 36(5):607-614. (IF-0.809)
46. E. Madoroba and **MNB Momba** (2010) Prevalence of *Vibrio cholerae* in rivers of Mpumalanga province, South Africa as revealed by polyphasic characterization'. *African Journal of Biotechnology*. 9(43) 7295-7301. (IF-0.57)
47. Okeyo ANA Okeyo, **MNB Momba** and M Coetzee (2011) Application of HACCP concept for the microbiological monitoring of drinking water quality: a case study of three water treatment plants in the Gauteng province, South Africa. *Trends in Applied Science Research*, 6 (3): 269-281 (IF)
48. Lungile P. Lukhele, Rui W.M. Krause, Bhekhe B. Mamba and **Maggy NB Momba** (2011) Copper and Silver Impregnated Carbon Nanotubes incorporated into Cyclodextrin Polyurethanes for the Removal of Bacterial and Organic Pollutants in Water. *Desalination and Water Treatment*. (27) 299-307 DoI: 10/5004/dwt.2011.2083. (IF-1.272)
49. JK Mwabi, FE Adeyemo, TO Mahlangu, BB Mamba , BM Brouckaert, CD Swartz, G Offringa , L Mpenyana-Monyatsi and **MNB Momba** (2011) Household water treatment systems: a solution to the production of safe drinking water by the low-income communities of Southern Africa. *Physics and Chemistry of the Earth* 36 (2011) 1120–1128. (IF-1.297)

50. Themba O. Mahlangu, Lizzy Mpenyana-Monyatsi, **Maggy N.B. Momba** and Bhekie B. Mamba (2011) A simplified cost-effective biosand filter (BSFZ) for removal of chemical contaminants from water. *Journal of Chemical Engineering and Materials Science*, 2 (10), 156-167. ISSN-2141-6605 .DOI: 10.5897/JCEMS11.041 (IF0.66)

51. **Kamika I** and **MNB Momba** (2011) Comparing the tolerance limits of selected bacterial and protozoan species to nickel in wastewater systems. *Science of the Total Environment*, 4010 (24), 172-181. (IF-4.42)

52. L Mpenyana-Monyatsi and **MNB Momba** (2012) Assessment of groundwater quality in the rural areas of the North West Province, South Africa. *Scientific Research and Essays* Vol. 7(8), pp. 903-914, ISSN 1992-2248. (IF-0.564)

53. Themba O Mahlangu, Bhekie B Mamba and **Maggie NB Momba** (2012) A comparative assessment of chemical contaminant removal by three household water treatment filters. *Water SA* Vol. 38 No. 1, 39-48. ISSN 0378-4738. (IF-0.809)

54. Mwabi Jocelyne K, Bhekie B. Mamba and **Maggy N. B. Momba** (2012) Removal of *Escherichia coli* and Faecal Coliforms from Surface Water and Groundwater by Household Water Treatment Devices/Systems: A Sustainable Solution for Improving Water Quality in Rural Communities of the Southern African Development Community Region. *Int. J. Environ. Res. Public Health* 2012, 9, 139-170. ISSN 1660-4601. (IF-2.035)

55. Lizzy Mpenyana-Monyatsi, Nomcebo H. Mthombeni , Maurice S. Onyango and **Maggy N. B. Momba** (2012) Cost-Effective Filter Materials Coated with Silver Nanoparticles for the Removal of Pathogenic Bacteria in Groundwater. *Int. J. Environ. Res. Public Health*, 9, 244-271. ISSN 1660-4601. (IF-2.035)

56. Lizzy Mpenyana-Monyatsi, Maurice Stephen Onyango, Maggy Ndombo Benteke Momb (2012) Groundwater Quality in a South African Rural Community: A Possible Threat to Public Health. *Pol. J. Environ. Stud.* Vol. 21, No. 5 (2012), 1343-1352

57. Samie A, Mashao MB, Bessong PO, Nkgau TF, **Momba MNB** , Obi CL (2012) Diversity and antibiograms of bacterial organisms isolated from household drinking water samples consumed by HIV positive individuals in rural settings in Limpopo province, South Africa. *Journal of Health, Population and Nutrition*. 30(3) 241-249. ISSN 1606-0997. (IF-1.56)

58. Nomcebo H. Mthombeni1, Lizzy Monyatsi-Mpenyana, Maurice S. Onyango and **Maggy N.B. Momba** (2012) Breakthrough Analysis for Water Disinfection Using Silver anoparticles Coated Resin Beads in Fixed-Bed Column. *Journal of Hazardous Materials*. 217– 218 (2012) 133– 140. ISSN: 0304-3894. (IF-4.679)

59. L Mpenyana-Monyatsi., MS Onyango and MNB Momba (2012) Pollution of groundwater sources in the Mpumalanga Province. *Pol. J. Environ. Stud. Vol. 21, No. 5 (2012), 1343-1352. ISSN, 1230-1485. (IF-0.71)*

60. Mahlangu TO, L Mpenyana-Monyatsi, BB Mamba and **MNB Momba** (2012). Efficiency of SIPP for production of clean potable water at lower costs. *Int. J. Environ. Res. Public Health* 9, 3014-3029; doi:10.3390/ijerph9093014. **ISSN 1660-4601.** (IF-2.035)

61. Kamika I and **MNB Momba** (2012) Comparing the tolerance limits of selected bacterial and protozoan species to vanadium in wastewater systems. *Water Air Soil Pollution* 223:2525–2539. **ISSN 1567-7230** DOI 10.1007/s11270-011-1045-9. (IF-1.68)

62. Tarek S. Jamil(a), Tarek A. Gad-Allah(a),M.E.M. Ali(a), **Maggy N. B. Momba** (2013) Utilization of nano size tio₂ for degradation of phenol enrich water by solar photocatalytic oxidation. *Desalination and Water Treatment*: DOI: 10.1080/19443994.2013.871340. (IF-1.272) **ISSN 1944-3986**

63. Kamika I and **MNB Momba** (2013) Assessing the resistance and bioremediation ability of selected bacterial and protozoan species to heavy metals in metal-rich industrial wastewater. *BMC Microbiology*, 13 (28), 1-14. doi:10.1186/1471-2180-13-28. **ISSN: 1471-2180.** (IF-2.97)

64. Kamika I and **MNB Momba** (2013) Synergistic effects of vanadium and nickel on heavy metal-tolerant microbial species in wastewater systems. *Desalination and Water Treatment*, 51 (2013) 7431–7446 DOI:10.1080/19443994.2013.777680. **ISSN1944-3986** (Online) (IF-1.272)

65. Okeyo ANA Okeyo, M. Coetzee and **MNB Momba** (2013). Use of coliphages to evaluate water treatment processes and determine faecal contamination origin of source waters. *International Journal of Environmental Science & Technology*. DOI 10.1007/s13762-013-0289-x. ISSN 1735-1472. (IF-2.334)

66. J.K. Mwabi, B.B. Mamba and **M.N.B. Momba** (2013) Removal of waterborne bacteria from surface and groundwater by cost effective HWTS: A sustainable solution for improving water quality in rural communities of Africa. *Water SA*. 39(4/7): 437-448. ISSN 0378-4738. (IF-0.809)

67. Notshekga S., Ray S.S., Onyango M.S., Momba M.N.B. (2013). Microwave-assisted synthesis, characterization and antibacterial activity of Ag/ZnO nanoparticles supported bentonite clay. *Journal of Hazardous Materials* 262: 439-446. (IF-4.679)

68. Mkhize N.T., Msagati T.A.M., Mamba B.B. and **Momba M.N.B.** (2014) Determination of volatile fatty acids in wastewater by solvent extraction and gas chromatography. *Physics and Chemistry of the Earth*, (67–69) 86–92. (IF-2.308)

69. Kamika, Ilunga; Coetzee, Martie; Mamba, Bhekhe B.; Msagati, Titus; **Momba, Maggy N.B.** (2014). "The Impact of Microbial Ecology and Chemical Profile on the Enhanced Biological Phosphorus Removal (EBPR) Process: A Case Study of Northern Wastewater Treatment Works, Johannesburg." *Int. J. Environ. Res. Public Health* 11, no. 3: 2876-2898. (IF-3.127)
70. Kamika I, **Momba MNB** (2014) Microbial Diversity of Emalahleni Mine Water in South Africa and Tolerance Ability of the Predominant Organism to Vanadium and Nickel. *PLoS ONE* 9(1): e86189. [Http://doi: 10.1371/journal.pone.0086189](http://doi.org/10.1371/journal.pone.0086189). (IF-2.740)
71. Kamika, I. and **Momba, M.N.B.** 2014. Effect of vanadium toxicity at its different oxidation states on selected bacterial and protozoan isolates in wastewater. *Environmental Technology* 35(16): 2075-2085. <http://doi.org/10.1080/09593330.2014.893023>. (IF-2.213)
72. Sekar, S., Zintchem, A.A.E.A., Keshri, J., I Kamika, **MNB Momba.** (2014). Bacterial profiling in brine samples of Emalahleni Water Reclamation Plant, South Africa, using 454-pyrosequencing method. *FEMS Microbiology Letters* 359 (2014) 55–63. <http://doi.org/10.1111/1574-6968.12557>(IF-2.72)
73. RM Siebrits, K Winter, J Barnes, MC Dent, G Ekama, M Ginster, J Harrison, B Jackson, I Jacobs, A Jordaan, HC Kasan, W Kloppers, R le Roux, J Maree, **MNB Momba**, AV Munnik, J O’Keeffe¹⁵, R Schulze³, M Silberbauer, D Still¹⁷ and JE van Zyl (2014) Priority water research questions for South Africa developed through participatory processes. *Water SA* 40 (2):199-209. (IF-0.90)
74. GZ Teklehaimanot, MAA Coetzee and **MNB Momba** (2014) Faecal pollution loads in the wastewater effluents and receiving water bodies: a threat to the communities of Sedibeng and Soshanguve, South Africa. *Environmental Science and Pollution Research*. <http://doi.org/10.1007/s11356-014-2980> # Springer-Verlag Berlin Heidelberg 2014. link.springer.com/journal/11356 (IF-3.000)
75. I. Kamika, **M.N.B. Momba**, (2014) Effect of nickel to nutrient removal by selected indigenous protozoan species in wastewater systems, *Saudi Journal of Biological Science*, <http://dx.doi.org/10.1016/j.sjbs.2014.09.010> (IF 2.870)
76. Ramalivhana JN¹, Obi CL², Samie A³, Iweriebor BC³, Uaboi-Egbenni P³, Idiaghe J.E.⁴ and **Momba M. N. B** (2014) Antibacterial activity of honey and medicinal plant extracts against Gram negative organisms. *African Journal of Biotechnology* 13(4): 616-625. (IF-0.573)
77. Adeyemo, F.E., Kamika, I. and **Momba, M.N.B.**(2014) Comparing the effectiveness of five low cost home water treatment devices for Cryptosporidium, Giardia and somatic coliphages removal from water sources. *Desalination and Water treatment*. 56, 2351-2367 <http://dx.doi.org/10.1080/19443994.2014.960457> (IF 1.320)

78. Jitendra Keshri & Boitumelo B. J. Mankazana & **Maggy N. B. Momba** (2014) Profile of bacterial communities in South African mine-water samples using Illumina next-generation sequencing platform. *Applied Microbiology and Biotechnol.* 98 (24). Published Online # Springer-Verlag Berlin Heidelberg. <http://doi.org/10.1007/s00253-014-6213-6>. www.springer.com/life+sciences/microbiology/journal/253. IF: 3.530
79. ALK Abia, E Ubomba-Jaswa, CC Ssemakalu, **MNB Momba** (2015) Development of a rapid approach for the enumeration of *Escherichia coli* in riverbed sediment: Case study, the Apies River, South Africa. *J Soils Sediments* (2015) 15:2425–2432. <http://doi.org/10.1007/s11368-015-1081-y> (IF 2.790)
80. Kachieng'a, L. & **Momba, M.N.B** (2015) Biodegradation of Fats and Oils in Domestic Wastewater by Selected Protozoan Isolates. *Water Air Soil Pollut* 226:140 DOI 10.1007/s11270-015-2405-7 (IF:1.769)
81. Teklehaimanot, G.Z., Kamika, I., Genthe, B., Coetzee, M.A.A., **Momba, M.N.B.** (2015) Prevalence of enteropathogenic bacteria in treated effluents and receiving water bodies and their potential health risks. *Science of the Total Environment* 518–519, 441–449 (IF-6.751).
82. Sarah C. Motshekga, Suprakas Sinha Ray, Maurice S. Onyango, **Maggie N.B.Momba** (2015) Preparation and antibacterial activity of chitosan-based nanocomposites containing bentonite-supported silver and zinc oxide nanoparticles for water disinfection. *Applied Clay Science* 114 (2015) 330–339. (IF 4.180)
83. Teklehaimanot, G.Z., Kamika, I., Coetzee, M.A.A., **Momba, M.N.B** (2015). Population growth and its impact on the design capacity and performance of the wastewater treatment plants in Sedibeng and Soshanguve, South Africa. *Environmental Management*, 56:984–997. DOI 10.1007/s00267-015-0564-3. (IF 2.810)
84. Akebe Luther King Abia, Eunice Ubomba-Jaswa, Martella du Preez, **Maggy Ndombo Benteke Momba** (2015) Riverbed sediments in the Apies River, South Africa: recommending the use of both *Clostridium perfringens* and *Escherichia coli* as indicators of faecal pollution. *J Soils Sediments*. Published online 28 August DOI 10.1007/s11368-015-1209-0 <http://link.springer.com/article/10.1007/s11368-015-1209-0> (IF 2.790)
85. Akebe Luther King Abia, Eunice Ubomba-Jaswa, **Maggy Ndombo Benteke Momba**(2015) Impact of seasonal variation on *Escherichia coli* concentrations in the riverbed sediments in the Apies River, South Africa. *Science of the Total Environment* 537 (2015) 462–469. (IF 6.751)
86. Teklehaimanot, G.Z., Kamika, I., Coetzee, M.A.A., **Momba, M.N.B.** (2015) Seasonal variation of nutrient loads in treated wastewater effluents and receiving water bodies in Sedibeng and Soshanguve, South Africa. *Environmental Monitoring and Assessment*. 187: 595. DOI 10.1007/s10661-015-4795-9 (IF 1.959)

87. Akebe Luther King Abia & Eunice Ubomba-Jaswa & **Maggy Ndombo Benteke Momba** (2015) High prevalence of multiple-antibiotic-resistant (MAR) *Escherichia coli* in river bed sediments of the Apies River, South Africa. *Environmental Monitoring Assessment*, 187: 652. DOI 10.1007/s10661-015-4879-6. (IF 1.959)
88. Abia A.L.K., Ubomba-Jaswa E., **Momba M.N.B.** (2016). Occurrence of diarrhoeagenic *Escherichia coli* virulence genes in bed sediments of a river used by communities in Gauteng, South Africa. *Environmental Science and Pollution Research*. (2016) 23:15665–15674 DOI 10.1007/s11356-016-6762-6 (IF:2.760)
89. Abia A.L.K., Ubomba-Jaswa E., **Momba M.N.B.** (2016). Competitive survival of *Escherichia coli*, *Vibrio cholerae*, *Salmonella typhimurium* and *Shigella dysenteriae* in riverbed sediments. *Microb Ecol* DOI 10.1007/s00248-016-0784-y. Publish Online 18 may (IF: 3.660)
90. Abia A.L.K., Ubomba-Jaswa E., Genthe B., **Momba M.N.B.** (2016). Quantitative microbial risk assessment (QMRA) shows increased public health risk associated with exposure to river water under conditions of riverbed sediment resuspension. *Science of the Total Environment* 566–567 (2016) 1143–1151. (IF:6.751)
91. Achisa C. Mecha, Maurice S. Onyango, Aoyi Ochieng, Tarek S. Jamil, Christoffel J. S. Fourie & **Maggy N. B. Momba** (2016) UV and solar light photocatalytic removal of organic contaminants in municipal wastewater. *Separation Science and Technology*. Published online. <http://dx.doi.org/10.1080/01496395.2016.1178290>. (IF:1.160)
92. Achisa C. Mecha, Maurice S. Onyango, Aoyi Ochieng and **Maggy N. B. Momba** (2016) Impact of ozonation in removing organic micro-pollutants in primary and secondary municipal wastewater: effect of process parameters. *Water Science & Technology* 74.3 :756-765 (IF:1.247)
93. Achisa C. Mecha, Maurice S. Onyango, Aoyi Ochieng, Christoffel J. S. Fourie & **Maggy N. B. Momba** (2016) Synergistic effect of UV–vis and solar photocatalytic ozonation on the degradation of phenol in municipal wastewater: A comparative study. *Journal of Catalysis* 341 (2016) 116–125 (IF:7.680)
94. Abia A.L.K., Ubomba-Jaswa E., **Momba M.N.B.** (2016). Prevalence of pathogenic microorganisms and their correlation with the abundance of indicator organisms in riverbed sediments. *International Journal of Environmental Science and Technology*. DOI 10.1007/s13762-016-1116-y (IF 2.344) (IF 2.037)
95. K. Meli, I. Kamika, J. Keshri & **M. N. B. Momba** (2016) The impact of zinc oxide nanoparticles on the bacterial microbiome of activated sludge systems. *Scientific Reports* 6,39176 . DOI: 10.1038/srep39176. www.nature.com/scientificreports. (IF:4.120)

96. Mpenyana-Monyatsi , NH Mthombeni, MS Onyango and **MNB Momba** (2016) The effects of material loading and flow rate on the disinfection of pathogenic microorganisms using cation resin-silver nanoparticle filter system, *Physics and Chemistry of the Earth*, <http://dx.doi.org/10.1016/j.pce.2016.10.012>. (IF 2.308)
97. Anza-vhudziki Mboyi, Ilunga Kamika, **Maggy N.B. Momba** (2017) Detrimental effects of commercial zinc oxide and silver nanomaterials on bacterial populations and performance of wastewater systems, *Physics and Chemistry of the Earth* (100): 158-169. <http://dx.doi.org/10.1016/j.pce.2016.12.003> (IF 2.308)
98. Anza-vhudziki Mboyi, Ilunga Kamika and **Maggy N. B. Momba** (2017) Nanoscale development and its application in multidisciplinary area: An African perspective. *African Journal of Biotechnology* 16(5)193-203. DOI:10.5897/AJB2016.15254. ISSN 1684-5315. (IF 0.553)
99. Anza-Vhudziki Mboyi, Ilunga Kamika & **Maggy Momba** (2017). The ability of consortium wastewater protozoan and bacterial species to remove COD in the presence of nanomaterials under varying pH conditions. *Journal of Environmental Science and Health, Part A*, DOI: 10.1080/10934529.2017.1301744. (IF 1.724).
100. Abia, A.L.K.; James, C.; Ubomba-Jaswa, E.; **Maggy Ndombo Benteke Momba** (2017) Microbial Remobilisation on Riverbed Sediment Disturbance in Experimental Flumes and a Human-Impacted River: Implication for Water Resource Management and Public Health in Developing Sub-Saharan African Countries. *Int. J. Environ. Res. Public Health*, 14(3), 306; doi: 10.3390/ijerph14030306. (IF 2.849)
101. Abia A.L.K., Ubomba-Jaswa E., **Momba M.N.B.** (2017) Riverbed Sediments as Reservoirs of Multiple *Vibrio cholerae* Virulence-Associated Genes: A Potential Trigger for Cholera Outbreaks in Developing Countries. *Journal of Environmental and Public Health* Volume 2017, Article ID 5646480, 9 pages. <https://doi.org/10.1155/2017/5646480> (IF 2.468)
102. Ekwanzala MD., Abia ALK., Keshri J., **Momba MNB.** (2017a). Genetic characterization of *Salmonella* and *Shigella* spp. isolates recovered from water and riverbed sediment of the Apies River, South Africa. *Water SA* 43:387–397. DOI: 10.4314/wsa.v43i3.03. (IF 1.077)
103. Ekwanzala MD., Abia ALK., Ubomba-Jaswa E., Keshri J., **Momba MNB.** (2017b). Genetic relatedness of faecal coliforms and enterococci bacteria isolated from water and sediments of the Apies River, Gauteng, South Africa. *AMB Express* 7:20. DOI: 10.1186/s13568-016-0319-4. (IF 2.310)
104. Avhashoni D. Nefale, Ilunga Kamika, Chikwelu L. Obi and **Maggy NB Momba** (2017) The Limpopo Non-Metropolitan Drinking Water Supplier Response to a Diagnostic

- Tool for Technical Compliance. *Int. J. Environ. Res. Public Health* (14) 810. doi:10.3390/ijerph14070810. (IF 2.849)
105. Avhashoni Dorcas Nefale, Ilunga Kamika and **Maggy N. B. Momba** (2017) Non-Metropolitan Drinking Water Suppliers' Response to the Diagnostic Tool for Non-Technical Compliance in Limpopo, South Africa. *Water* (9) 853. doi:10.3390/w9110853. (IF 2.250)
106. L. Kachieng'a, **M.N.B. Momba** (2017) Biodegradation of petroleum hydrocarbon functional groups in contaminated water using selected protozoan isolates. *Journal of Environmental Chemical Engineering* (5) 1885–1891. <http://dx.doi.org/10.1016/j.jece.2017.03.022>. (IF 4.020)
107. L. Kachieng'a, **M.N.B. Momba** (2017) Kinetics of petroleum oil biodegradation by a consortium of three protozoan isolates (*Aspidisca* sp., *Trachelophyllum* sp. and *Peranema* sp.) *Biotechnology Reports* 15 (2017) 125–131. <http://dx.doi.org/10.1016/j.btre.2017.07.001> (IF 4.47)
108. L. Mpenyana-Monyatsi, N.H. Mthombeni, M.S. Onyango, **M.N.B. Momba** (2017) The effects of material loading and flow rate on the disinfection of pathogenic microorganisms using cation resin-silver nanoparticle filter system. *Physics and Chemistry of the Earth* (100) 181-188. (IF 1.988)
109. Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, and **Maggy NB Momba**, (2017). Evaluation of synergy and bacterial regrowth in photocatalytic ozonation disinfection of municipal wastewater, *Science of the Total Environment*, 601-602, pg 626-635, <https://doi.org/10.1016/j.scitotenv.2017.05.204>. (IF 6.751)
110. Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, and **Maggy NB Momba**, 2017. Ultraviolet and solar photocatalytic ozonation of municipal wastewater: Catalyst reuse, energy requirements and toxicity assessment. *Chemosphere*, 186, 669-676, <https://doi.org/10.1016/j.chemosphere.2017.08.041>. (IF:5.578)
111. Resoketswe Charlotte Moropeng, Phumudzo Budeli, Lizzy Monyatsi-Mpenyana and **Maggy NB Momba** (2018) Dramatic reduction in diarrhoeal diseases through implementation of cost-effective household drinking water treatment systems in Makwane Village, Limpopo Province, South Africa. *Int. J. Environ. Res. Public Health* **2018**, 15, 410; doi:10.3390/ijerph15030410 (IF 2.468)
112. Kachieng'a, L & **MOMBA, M.N.B.** (2018). Metagenomic profiling for assessing microbial diversity and microbial adaptation to degradation of hydrocarbons in two South African petroleum contaminated water aquifers. *Scientific Reports* 8:7564 | DOI:10.1038/s41598-018-25961-0 www.nature.com/scientific-reports. (IF 4.120)

113. Kachieng'a L & **Momba, M.N.B.** (2018). The synergistic effect of a consortium of protozoan isolates (*Paramecium* sp., *Vorticella* sp., *Epistylis* sp. and *Opercularia* sp.) on the biodegradation of petroleum hydrocarbons in wastewater. *Journal of Environmental Chemical Engineering* 6 (2018) 4820–4827. (IF 4.020)
114. Mutshiene Deogratias Ekwanzala, John Barr Dewar, Ilunga Kamika, **Maggy Ndombo Benteke Momba** (2018) Systematic review in South Africa reveals antibiotic resistance genes shared between clinical and environmental settings. *Infection and Drug Resistance* 2018:11 1907–1920. DOI <https://doi.org/10.2147/IDR.S170715> (IF 3.527) Publisher:Dove Press
115. Budeli P, Moropeng RC, Mpenyana-Monyatsi L, **Momba MNB** (2018) Inhibition of biofilm formation on the surface of water storage containers using biosand zeolite silver-impregnated clay granular and silver impregnated porous pot filtration systems. *PLoS ONE* 13(4): e0194715. <https://doi.org/10.1371/journal.pone.0194715> (IF 2.776)
116. Ekwanzala MD, Budeli P, Dewar JB, Kamika I, Momba MNB. (2019). Draft genome sequences of novel sequence type 3559 carbapenem-resistant *Klebsiella pneumoniae* isolates recovered from the environment. *Microbiology Resource Announcements* 8:e00518-19. <https://doi.org/10.1128/MRA.00518-19>. (IF 0.877)
117. Ekwanzala, M. D., Dewar, J. B., Kamika, I., & Momba, M. N. B. (2019). Tracking the environmental dissemination of carbapenem-resistant *Klebsiella pneumoniae* using whole genome sequencing. *Science of The Total Environment*, 691, 80-92. <https://doi.org/10.1016/j.scitotenv.2019.06.533>. 0048-9697/© 2019 Published by Elsevier B.V. (IF 6.551).
118. C. M. N. Khabo-Mmekoa and M. N. B. Momba (2019) The Impact of social disparities on microbiological quality of drinking water supply in Ugu district municipality of Kwazulu-Natal Province, South Africa. *Int. J. Environ. Res. Public Health*, 16, 2972. doi:10.3390/ijerph16162972 (IF 2.849)
119. Teddy Kabeya Kasongaa, Martie A.A. Coetzee, Catherina Van Zijlb, Maggy Ndombo Benteke Momba (2019) Removal of pharmaceutical' estrogenic activity of sequencing batch reactor effluents assessed in the T47D-KBluc reporter gene assay. *Journal of Environmental Management* 240: 209–218. <https://doi.org/10.1016/j.jenvman.2019.03.113> (IF 5.647) Elsevier
120. Teddy Kabeya Kasongaa, Martie A.A. Coetzee, Catherina Van Zijlb, Maggy Ndombo Benteke Momba (2019) Data on UPLC/MS method validation for the biodegradation of pharmaceuticals and intermediates by a fungal consortium and on T47DK-Bluc reporter gene assay to assess the reduction of their estrogenic activity. *Data in brief* 25 (2019) 104336. <https://doi.org/10.1016/j.dib.2019.104336> (IF 1.133) Elsevier
121. Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, Maggy NB Momba (2020) Modelling inactivation kinetics of waterborne pathogens in municipal wastewater using

- ozone. *Environmental Engineering Research* 25(6): 890-897. <https://doi.org/10.4491/eer.2019.432>. (IF 2.507)
122. Teddy Kabeya Kasonga, Martie A.A. Coetzee, Ilunga Kamika, **Maggy Ndombo Benteke Momba** (2020) Data on the degradation of pharmaceuticals and their metabolites by a fungal consortium in a non-sterile stirred fluidized bioreactor. *Data in brief* 28 (2020) 105057. <https://doi.org/10.1016/j.dib.2019.105057> (IF 1.133) Elsevier
123. Muyasu Grace Kibambe, **Maggie N.B. Momba**, A.P. Daso a, M.C. Van Zijl b, Marthie A. A. Coetzee (2020) Efficiency of selected wastewater treatment processes in removing estrogen compounds and reducing estrogenic activity using the T47D-KBLUC reporter gene assay. *Journal of Environmental Management* 260, (2020) 110135. <https://doi.org/10.1016/j.jenvman.2020.110135> (IF 5.647) Elsevier
124. M.G. Kibambe , **M.N.B. Momba**, A.P. Daso, M.A.A. Coetzee (2020) Evaluation of the efficiency of selected wastewater treatment processes in removing selected perfluoroalkyl substances (PFASs). *Journal of Environmental Management* 255, (2020) 109945 <https://doi.org/10.1016/j.jenvman.2019.109945>. (IF 5.647) Elsevier
125. Mutshiene Deogratias Ekwanzala, John Barr Dewar, Ilunga Kamika, **Maggy Ndombo Benteke Momba** (2020) Genome sequence of carbapenem-resistant *Citrobacter koseri* carrying blaOXA-181 isolated from sewage sludge. *Journal of Global Antimicrobial Resistance* 20 (2020) 94–97 <https://doi.org/10.1016/j.jgar.2019.07.011> (IF: 4.035). Publisher Elsevier
126. Mutshiene Deogratias Ekwanzala, John Barr Dewar, Ilunga Kamika, Maggy Ndombo Benteke Momba (2020) Comparative genomics of vancomycin-resistant *Enterococcus* spp. revealed common resistome determinants from hospital wastewater to aquatic environments. *Science of the Total Environment* 719 (2020) 137275. <https://doi.org/10.1016/j.scitotenv.2020.137275> 0048-9697/© 2020 Elsevier B.V. (IF 7.963)
127. Mutshiene Deogratias Ekwanzala, John Barr Dewar, Maggy Ndombo Benteke Momba (2020) Environmental resistome risks of wastewaters and aquatic environments deciphered by shotgun metagenomic assembly. *Ecotoxicology and Environmental Safety* 197 (2020) 110612. <https://doi.org/10.1016/j.ecoenv.2020.110612> (IF 6.291)
128. Ekwanzala, M. D., Lehutso, R.F., Kasonga, T.K., Dewar, J. B., & Momba, M. N. B. (2020). Environmental dissemination of selected antibiotics from hospital wastewater to the aquatic environment. *Antibiotics*. 2020, 9, 431. <https://doi.org/10.3390/antibiotics9070431>. (IF 4.639)
129. Raseala CM, Ekwanzala MD, Momba MNB (2020). Shared Extended-Spectrum β -Lactamase-Producing *Salmonella* Serovars between Agricultural and Aquatic Environments Revealed through invA Amplicon Sequencing. *Microorganisms*, 8(12):1-18, 1898. (IF 4.926). <https://doi.org/10.3390/microorganisms8121898>
130. Cecilia Mahlatse Raseala, Mutshiene Deogratias Ekwanzala, Maggy Ndombo Benteke Momba (2020) Multilocus-based phylogenetic analysis of extended-spectrum beta-

- lactamase Escherichia coli O157:H7 uncovers related strains between agriculture and nearby water sources. *Journal of Infection and Public Health*, 13(12) 1899-1906 <https://doi.org/10.1016/j.jiph.2020.10.016> (IF 7.537) Publisher: Elsevier
131. Resoketswe Charlotte Moropeng, Maggie Ndombo Benteke Momba (2020) Mechanism of silver incorporated in biosand zeolite clay granular filters for the removal of *Cryptosporidium parvum* and *Giardia lamblia* from surface water at point of use. *Desalination and Water Treatment*, 205(2020), 286-295. Publisher: Desalination Publications. <https://doi.org/10.5004/dwt.2020.26395> (IF 1.320). Publisher Desalination.
132. RC Moropeng, MNB Momba - Crystals (2020) Assessing the Sustainability and Acceptance Rate of Cost-Effective Household Water Treatment Systems in Rural Communities of Makwane Village, South Africa. *Crystals* (10) (10). <https://doi.org/10.3390/cryst10100872> (IF: 2.589)
133. Vanessa Weber, Ilunga Kamika, Maggy Ndombo Benteke Momba (2020) Halophilic bacterial community and their ability to remove zinc oxide and titanium dioxide nanoparticles from wastewater. *Desalination and Water Treatment*, 181 (2020) 161–187. DOI: <https://doi.org/10.5004/dwt.2020.25012>. Publisher: Desalination. www.deswater.com (IF 1.320)
134. P Budeli, RC Moropeng, L Mpenyana-Monyatsi, I Kamika, MNB Momba (2020) Status of water sources, hygiene and sanitation and its impact on the health of households of Makwane Village, Limpopo Province, South Africa. *medRxiv.org*. <https://doi.org/10.1101/2020.01.31.20019679>. Publisher: Cold spring harbour Laboratory. BMJ Yale.
135. Phumudzo Budeli , Mutshiene Deogratias Ekwanzala, John Onolame Unuofin, Maggy Ndombo Benteke Momba (2021) Endocrine disruptive estrogens in wastewater: Revisiting bacterial degradation and zymoremediation. *Environmental Technology & Innovation*, 21 (2021) 101248. <https://doi.org/10.1016/j.eti.2020.101248> (IF 5.263)
136. Mutshiene Deogratias Ekwanzala, Phumudzo Budeli a, John Barr Dewar, Maggy Ndombo Benteke Momba (2021) Corrigendum to “Phylogenomic analysis of vancomycin-resistant *Pediococcus acidilactici* and *P. pentosaceus* isolated from the environment. *Ecological Genetics and Genomics* 18 (2021) 100069. <https://doi.org/10.1016/j.egg.2020.100062> (IF 1.9)
137. Muofhe Grace Mphephu, Mutshiene Deogratias Ekwanzala and Maggy Ndombo Benteke Momba (2021) *Cryptosporidium* species and subtypes in river water and riverbed sediment using next-generation sequencing. *International Journal for Parasitology* 51 (2021) 339–351 <https://doi.org/10.1016/j.ijpara.2020.10.005> (IF 3.981)
138. Moropeng, R.C.; Budeli, P.; Momba, M.N.B. (2021) An Integrated Approach to Hygiene, Sanitation, and Storage Practices for Improving Microbial Quality of Drinking Water Treated at Point of Use: A Case Study in Makwane Village, South Africa. *International Journal of Environ. Res. Public Health* 18, 6313. <https://doi.org/10.3390/ijerph18126313> (IF 3.390)
139. Phumudzo Budeli, Resoketswe Charlotte Moropeng, Maggy Ndombo Benteke Momba (2021) Improvement of biosand filtration systems using silver-impregnated clay granules. *Journal of Water Process Engineering* 41, 102049 <https://doi.org/10.1016/j.jwpe.2021.102049> (IF 5.485)

140. Weber V, Kamika I and Momba MNB (2021) Comparing the effect of Zinc Oxide and Titanium Dioxide nanoparticles on the ability of moderately halophilic bacteria to treat wastewater". *Scientific Reports* 11:16969 | <https://doi.org/10.1038/s41598-021-96413-5> (IF 4.379) Publisher Springer Nature
141. Arman Aimé Eroko A Zintchem, Ilunga Kamika, Maggy Ndombo Benteke Momba (2021) Treatment of Mine Rejected-Brine Wastewater by Indigenous Halophilic Bacterial Species under Aerobic and Anaerobic Conditions. *Desalination and Water Treatment*. 235, 39–65 <https://doi.org/10.5004/dwt.2021.27528> (IF: 1.388). Publisher Desalination.
142. Ramaite, K.; Ekwanzala, M.D.; Dewar, J.B.; Momba, M.N.B (2021). Human-Associated Methicillin-Resistant *Staphylococcus aureus* Clonal Complex 80 Isolated from Cattle and Aquatic Environments. *Antibiotics*, 10, 1038. <https://doi.org/10.3390/antibiotics10091038> (IF: 5.222)
143. Teddy Kabeya Kasonga, Marie AA Coetzee, Ilunga Kamika, Veronica M Ngole-Jeme, Maggy Ndombo Benteke Momba (2021) Endocrine-disruptive chemicals as contaminants of emerging concern in wastewater and surface water: A review. *Journal of Environmental Management* 277 (2021) 111485. <https://doi.org/10.1016/j.jenvman.2020.111485> (IF 5.647) Publisher Elsevier
144. Teddy Kabeya Kasonga, Marie AA Coetzee, Ilunga Kamika, Maggy Ndombo Benteke Momba (2021) Assessing the fungal simultaneous removal efficiency of carbamazepine, diclofenac and ibuprofen in aquatic environment. *Frontiers in Microbiology*. 12:755972. <https://doi.org/10.3389/fmicb.2021.755972> (IF 6.064)
145. Khabo-Mmekkoa CM, Genthe B, Momba MNB (2022) Enteric pathogens risk factors associated with household drinking water: A case study in Ugu District, KwaZulu Natal Province, South Africa. *International Journal of Environmental Research & Public Health*. 19, 4431. <https://doi.org/10.3390/ijerph19084431>
146. Arinao Murei, Barbara Mogane, Dikeledi Prudence Mothiba, Opelo Tlotlo Wryl Mochware, Jeridah Mathlhokha Sekgobela, Mulalo Mudua, Ndamulelo Musumuvhi, Colette Mmapenya Khabo-Mmekkoa, Resoketswe Charlotte Moropeng and Maggie Ndombo Benteke Momba (2022) Barriers to Water and Sanitation Safety Plans in Rural Areas of South Africa—A Case Study in the Vhembe District. Limpopo Province. *Water* 14(8), 1244. <https://doi.org/10.3390/w14081244> (IF 3.628). Publisher MDPI
148. Teddy Kabeya Kasonga, Martie AA Coetzee, Ilunga Kamika, Maggy Ndombo Benteke Momba (2022) Assessing a co-culture fungal granule ability to remove pharmaceuticals in a sequencing batch reactor. *Environmental Technology* 43/11: 1684-1699. <https://doi.org/10.1080/09593330.2020.1847204> (IF 3.475). Publisher- Taylor and Francis group
149. Phumudzo Budeli, M Ekwanzala, M Momba (2022) Hormetic effect of 17 α -ethynylestradiol on activated sludge microbial community response. *Frontiers in Microbiology*, 13:961736. <https://doi.org/10.3389/fmicb.2022.961736> (IF 6.064)
150. Budeli P, Unoufin JO, Resoketswe Charlotte Moropeng and MNB Momba (2022) Novel bio-catalytic degradation of endocrine disrupting compounds in wastewater.

- Frontiers in bioengineering and biotechnology.10:996566. <https://doi.org/10.3389/fbioe.2022.996566> (IF5.89)
151. Mutshiene Deogratias Ekwanzala and Maggy Ndombo Benteke Momba (2022) GenoTrack, a Webtool to Geospatially Link Bacterial Genomes from Environmental and Clinical Settings. IST-Africa Conference (IST-Africa). INSPEC Accession Number: 21990524 <https://doi.org/10.23919/IST-Africa56635.2022.9845587>
152. Ramaite, K.; Ekwanzala, M.D.; Momba, M.N.B. Prevalence (2022) Prevalence and Molecular Characterisation of Extended-Spectrum Beta-Lactamase-Producing Shiga Toxin-Producing Escherichia coli, from Cattle Farm to Aquatic Environments. Pathogens 11(6), 674; <https://doi.org/10.3390/pathogens11060674> (IF 4.531)
153. CMN Khabo-Mmekoa, MNB Momba (2022) The Burden of Poor Household Drinking-Water Quality on HIV/AIDS Infected Individuals in Rural Communities of Ugu District Municipality, Kwazulu-Natal Province, South Africa. DOI:10.26502/jbb.2642-91280063 DOI:10.26502/jbb.2642-91280063 DOI:10.26502/jbb.2642-91280063 Journal of Biotechnology and Biomedicine 5 (2022): 231-242. <https://doi.org/10.26502/jbb.2642-91280063>. (IF 5.3)

Books and Book Chapters

1. **Momba MNB** and Bux F. (2010) Biomass (Eds Momba MNB and Bux F). Sciyo. Janeza Tride, 9, 51000 Rijeka, Croatia. WWW.sciyo.com. ISBN 978-953-307-113-8.
2. Muyima NYO, **Momba MNB** and Cloete TE (1997) Biological methods for the treatment of wastewater. *In: Microbial community Analysis: the key to the design of biological wastewater treatment systems* (ed. T.E Cloete and N.Y.O Muyima). *International Association on Water Quality IAWQ*. pp 1 - 24.
3. **Momba MNB** (2000) Influence of chloramination on bacterial regrowth in a chlorinated surface water laboratory-scale system. *In: Research Advances In Water Research*. (Ed, Global Net Work. Kerala, India. **1**, 51-62.
4. **Momba MNB** and C. Mfenyana (2005) Inadequate treatment of wastewater: A source of coliform bacteria in receiving surface water bodies in developing countries – Case study: Eastern Cape Province of South Africa. *In Water Encyclopedia –Domestic, Municipal, and Industrial water supply and waste disposal* (Edt J.H. Lehr and J. Keeley). John Wiley & Son, Inc. Pages 661-667.
5. **Momba MNB**, N Makala B Zani and BM Brouckaert (2005) **K**ey causes of drinking water quality failure in a rural small water supply of South Africa. *In Water Encyclopedia – Domestic, Municipal, and Industrial water supply and waste disposal* (Edt J.H. Lehr and J. Keeley). John Wiley & Son, Inc. Pages 221-227.
6. **Momba MNB**, N. Makala and A.Okeyo (2005) Assessing the bactericidal efficiency of polydex for the disinfection of drinking water in rural areas of South Africa. *In Water Encyclopedia –Domestic, Municipal, and Industrial water supply and waste disposal* (Edt J.H. Lehr and J. Keeley). John Wiley & Son, Inc. Pages, 382-387
7. **Momba MNB** (2010) Wastewater Protozoan-Driven Environmental Processes for the Protection of Water Sources. *Chapter in a book. In Biomas* (Edt Momba MNB and Bux

- F). Sciyo. Janeza Tride, 9, 51000 Rijeka, Croatia. Pages: 183-202. ISBN 978-953-307-113-. WWW.sciyo.com
8. **Momba MNB, Madoroba E. and CL Obi (2010)** Apparent impact of enteric pathogens in drinking water and implications for the relentless saga of HIV/AIDS in South Africa. In *Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology* (Edt. Antonio Mendez Villas). Formatex Research Center. Spain. Vol.1:615-625.ISBN(13):978-84-614-6194-3
<http://www.formatex.org/microbiology2>.
 9. Momba M.N.B. (2013). Silver Impregnated Porous Clay Pot Filters: A Solution for the Production of Safe Drinking Water in Rural Scattered Areas without Centralised Piped Systems. In: *The sustainable water resource handbook*, Braid S. (ed.). Alive2green: Cape Town, pp. 143-156.
 10. Maggy NB Momba, Lerato Baloyi, Lizzy Mpenyana-Monyatsi and Ilunga Kamika (2017) Nanotechnology-based filters for cost-effective drinking water purification in developing countries. In: *Water Purification, in Volume in Nantechnology in the Agri-food industry*. Vol 9. Pages 169-208. Edited by | Alexandru Mihai Grumezescu | ISBN 9780128043004 Elsevier Academic Press. ISBN-9780128043004. Printbook
<http://dx.doi.org/10.1016/B978-0-12-804300-4.00005-8>.
 11. Garcia-Aljaro, C., Momba, M. and Muniesa, M. 2017. Pathogenic members of *Escherichia coli* & *Shigella* spp. Shigellosis. In: JB Rose and B. Jiménez-Cisneros, (eds) *Global Water Pathogens Project*. <http://www.waterpathogens.org> (A. Pruden, N. Ashbolt and J. Miller (eds) Part 3Bacteria) <http://www.waterpathogens.org/book/ecoli> Michigan State University, E. Lansing, MI, UNESCO. Acknowledgements: K.R.L. Young, Project Design editor; Website Design (<http://www.agroknow.com>).
 12. Momba, M. and Azab El-Liethy, M. (2017). *Vibrio cholerae* and Cholera biotypes. In: J.B. Rose and B. Jiménez-Cisneros, (eds) *Global Water Pathogens Project*. <http://www.waterpathogens.org> (A. Pruden, N. Ashbolt and J. Miller (eds) Part 3 Bacteria) <http://www.waterpathogens.org/book/Vibrio> Michigan State University, E.Lansing, MI, UNESCO.
 13. Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, and Maggy NB Momba (2018) Inactivation of Waterborne Pathogens in Municipal Wastewater Using Ozone. In *Water Management: Social and Technological Perspectives (Green Chemistry and Chemical Engineering)* Iqbal M Mujtaba, Thokozani Majosi and Mutiu Kolade Aмоса (eds). Pages 275-287. Publisher: CRC Press; 1 edition (October 30, 2018) ISBN-13: 978-1138067240, ISBN-10: 1138067245. CRC Press.
 14. Kamika, I., Sibanda, T. and Momba, M. 2019. *Salmonella/Shigella/Vibrio* in treated effluents and impact on downstream water users (South Africa). In: J.B. Rose and B. Jiménez-Cisneros, (eds) *Global Water Pathogen Project*. <http://www.waterpathogens.org> (S. Petterson and G. Medema (eds) Part 5 Case Studies) <http://www.waterpathogens.org/book/Salmonella-Shigella-Vibrio-in-treated-effluents-and-impact-on-downstream-water-users-South-Africa>. Michigan State University, E. Lansing, MI, UNESCO. <https://doi.org/10.14321/waterpathogens.73>
 15. Momba, M., Edbon, J., Kamika, I. and Verbyla, M. 2019. Using indicators to assess microbial treatment and disinfection efficacy. In: J.B. Rose and B. Jiménez-Cisneros, (eds) *Global Water Pathogen Project*. <http://www.waterpathogens.org> (A.Farnleitner, and A.

Blanch (eds) Part 2 Indicators and Microbial Source Tracking Markers)
<http://www.waterpathogens.org/book/using-indicators-assess-microbial-treatment-and-disinfection-efficacy>. Michigan State University, E. Lansing, MI, UNESCO.
<https://doi.org/10.14321/waterpathogens.9>.

16. Phumudzo Budeli, Resoketswe Charlotte Moropeng, Mutshiene Deogratias Ekwanzala, Maggy Ndombo Benteke Momba (2020) Options for Microbiological Quality Improvement in African Households. In: A. L. K. Abia, G. R. Lanza(eds) Current Microbiological Research in Africa, Pages: 283-312. [PDF] from researchgate.net. © Springer Nature Switzerland AG 2020 283. <https://link.springer.com/book/10.1007/978-3-030-35296-7>
17. Teddy Kabeya Kasonga, Martie AA Coetzee, Ilunga Kamika, Maggy Ndombo Benteke Momba (2020). Isolation and identification of South African indigenous fungal strains and assessment of their ability to degrade diclofenac in synthetic wastewater. In: Vijay Kumar Sharma, Shobhika Parmar, Maulin P. Shah, Ajay Kumar (Eds.) Fungi Bio-Prospect in Sustainable Agriculture, Environment and Nano-technology. Elsevier Inc., London, pp. 213-249. <https://doi.org/10.1016/B978-0-12-821925-6.00011-3>
18. Mutshiene Deogratias Ekwanzala, Phumudzo Budeli and Maggy Momba (2021) Sustainable solutions to the impact of industrial water pollution on the environment and community health. In: Sustainable Industrial Water Use: Perspectives, Incentives, and Tools, (Cheryl Davis, Eric Rosenblum (Eds.). Pges: 127-137 https://doi.org/10.2166/9781789060676_0127
19. Anza-vhudziki Mboyi, Ilunga Kamika, and Maggy N.B. Momba (2021) Comparing the biosorption of ZnO and Ag nanomaterials by consortia of protozoan and bacterial species In: Nanobiotechnology for Plant Protection Silver Nanomaterials for Agri-Food Applications (Edited by Kamel A. Abd-Elsalam). <https://doi.org/10.1016/B978-0-12-823528-7.00013-5> Pages:579 -595

Technical Reports

1. **Momba MNB**, S Ndaliso, MA Binda and N Makala (2002) Inhibition of Biofilm Regrowth in potable water systems. WRC Report No 1023/1/02.
2. **Momba MNB**, BM. Brouckeart, N. Makala and Z Tyafa (2004) Ensuring sustainable effective disinfection in small water supply. WRC Report No 1391/1/05.
3. **Momba MNB** and BM Brouckaert (2005) Guidelines ensuring sustainable effective disinfection in small water supply systems. ISBN No1 1-77005-321-2. WRC WRCEport No. TT 249/05.Republic of South Africa.
4. Obi C.L, Ramalivhana J, Onabolu B., Momba MNB. Igumbor JO , LEI Janse van Rensburg, Lukoto M., Bessong P. O. , Green E, Ndou S, TB Mulaudzi (2007) Molecular Relatedness of Enteric pathogens isolated from water sources and HIV/AIDS Patients with diarrhoea in rural communities in Limpopo and Eastern Cape Province. WRC Report No 1633/1/07.
5. **Momba MNB**, P Thompson and CL Obi (2008) Guidelines for the improved disinfection of small water treatment plants. WRC TT355/08. ISBN 978-1-77005-726-5. Set No 978-1-77005-682-4, Republic of South Africa.

6. Momba MNB, CL. Obi and P. Thompson (2008) Improving disinfection efficiency of in small drinking water treatment plants. WRC Report No 1531/01/08
7. **Momba MNB**, M. Dugeni and M. Makala (2008) On-site Mobile Training of operators in small rural water supplies: An illustrative kit. WRC TT 348/08 ISBN 978-1-77005-704-3. Republic of South Africa.
8. **Momba MNB** and Swartz C (2009) Guidelines for the assessment of the compliance of South African potable water supply with accepted drinking water quality standards and Management norms. Volume 2 Guidelines-WRC TT425/09. ISBN 978-1-77005-907-8. Republic of South Africa
9. **Momba MNB**, CD Swartz and CL Obi (2009) Guidelines for the assessment of the compliance of South African potable water supply with accepted drinking water quality standards and management norms. WRC Report No 1668/1/09.
10. **MOMBA, M.N.B.**, OFFRINGA, G., NAMENI, G. & BROUCKAERT, B. (2010). Development of a prototype nanotechnology-based clay filter pot to purify water for drinking and cooking in rural homes. *Report No. KV 244/10*; South African Water Research Commission: Pretoria, South Africa
11. Momba MNB, JK Mwabi, BM Brouckaert, C Swartz, G Offringa & RO Rugimbana (2013) Guidelines for the selection and use of appropriate home water treatment systems by rural households. WRC Report No TT 580/13. South Africa
12. **MNB Momba, MAA Coetzee, I Kamika, Titus Msagati & BB Mamba (2013)** Guide Manual for the operation of Biological Nutrient Removal for Unit 3 and Unit 5 of Northern Wastewater Treatment Works. Johannesburg Water, South Africa
13. CC Brown, R. van Heerden, J Calitz, J Wright, MNB Momba and HM Sithole (2021) Chapter 6.6 - Infrastructure sector of Chapter 6 - Economic Infrastructure Response .In: Presidency of South Africa, 2021. Development of a Country Report on the Measures Implemented to Combat the Impact of Covid-19 in South Africa. Covid-19 Country Report [First edition]. DPME (Department of Planning, Monitoring and Evaluation), GTAC (Government Technical Advisory Centre) & NRF (National Research Foundation), Pretoria: June. file:///F:/2022%20output/SA-COVID-19-Report_WEBSITE.pdf
14. Goode, R., Carter-Brown, C., van Heerden, R., Calitz, J., Wright, J., Momba, N. B. M., Sithole, M. H. & Verhaeghe, B., 2021. Chapter 6.6. Infrastructure sector. South Africa Covid-19 Country Report [First edition]. DPME (Department of Planning, Monitoring and Evaluation), GTAC (Government Technical Advisory Centre) & NRF (National Research Foundation), Pretoria: June.

Refereed/Peer-Reviewed Conference Proceedings (As Whole Paper or Abstract)

1. **Momba MNB**, Cloete TE, Venter SN and Kfir R (1998) Evaluation of the impact of disinfection processes on the formation of biofilms in potable surface water distribution systems. *IAWQ 19th biennial international conference, Vancouver, 21-26 June 1998*.

2. Kaleni P and **MNB Momba** (1999) Assessment of the microbial quality of household containers during the storage of drinking water in rural community. *11th Annual Symposium of the Eastern Cape, Division of the South Africa Society for Biochemistry and Molecular Biology, University of Port Elizabeth 25 November 1999.*
3. Dumani N and **MNB Momba** (1999) The occurrence and survival of indicator micro-organisms in drinking water from stand-pipe during storage in household containers in the rural Area of Alice (Eastern Cape). *11th Annual Symposium of the Eastern Cape, Division of the South Africa Society for Biochemistry and Molecular Biology, University of Port Elizabeth 25 November 1999.*
4. Tyali and **MNB Momba** (1999) The assessment of the microbial quality of river water used for drinking water before and after storage in household containers in rural communities. *11th Annual Symposium of the Eastern Cape, Division of the South Africa Society for Biochemistry and Molecular Biology, University of Port Elizabeth 25 November 1999.*
5. **Momba MNB** and Mngumbe BV (2000) Detection of faecal coliforms and heterotrophic plate count bacteria attached to household containers during the storage of drinking groundwater in rural communities. *The Water Institute of South Africa, Biennial conference and exhibition. Sun City, 28 -1 June 2000 South Africa.*
6. **Momba MNB** and T.L. Notshe (2000) Microbial quality of drinking groundwater after long storage in household containers used by rural communities. *1st World Congress of the International Water Association (IWA); Paris/France 3-7 July 2000.*
7. **Momba MNB** and Tyali (2000) Use of monochloramine as secondary disinfectant for the inhibition of bacterial regrowth and accumulation of indicator micro-organisms in a laboratory scale system model receiving chlorinated water. *1st World Congress of the International Water Association (IWA); Paris/France 3-7 July 2000.*
8. **Momba MNB** and Kaleni P (2000) Growth and survival of indicator micro-organisms on the surface of household containers during the storage of drinking water in rural communities. *1st World Congress of the International Water Association (IWA); Paris/France 3-7 July 2000.*
9. **Momba MNB** and T Tyali (2001) Health threat associated with the microbial quality of Ncera river water used for drinking by the Ncera community of Alice (Eastern Cape). *3rd East Cape Health Research Conference. 16th- 18th August 2001. East London/SA.*
10. **Momba MNB** and P Kaleni (2001) Evaluation of the effectiveness of household bleach “JiK” used by the rural communities in developing countries for limiting the growth of indicator microorganisms in household container-stored waters. *3rd East Cape Health Research Conference. 16th- 18th August 2001. East London/SA.*
11. **Momba MNB** 2001. Disinfection efficacy of a combined chlorine-monochloramine process against bacterial regrowth in a ground water laboratory system. *IWA 2nd World Water Congress. Efficient Water Management-Making it Happen- Berlin/Germany. 15-19 October.*
12. **Momba MNB**, Ndaliso S and Binda MA (2002) The effect of a combined chlorine-monochloramine process on the inhibition of bacterial and biofilm regrowth in surface

- water and groundwater systems. Poster Presentation at the IWA 3rd World Congress, Melbourne/Australia 7-2 April.
13. **Momba MNB**, N. Makala & B. Brouckaert (2003) Evaluation of factors affecting the performance of small water supplies for the removal of indicator bacteria in rural developing areas of South Africa. *International Water Association Health-Related Water Microbiology Symposium*. Cape Town/South Africa 14-19 September 2003.
 14. **Momba MNB**, N. Makala, B Brouckaert, Z. Tyafa, P. Thompson ad AC. Buckely (2004) Improving the efficiency and sustainability of disinfection at a small rural water treatment plant. *The Water Institute of South Africa, Biennial conference and exhibition*. Cape Town, May 2004 South Africa.
 15. **Momba MNB** and N. Makala (2004) Polydex: An alternative disinfectant for Household potable water treatment in rural areas. . *The Water Institute of South Africa, Biennial conference and exhibition*. 2004 South Africa. Cape Town, South Africa.
 16. **NB Momba**, N Makala, Z Tyafa and BM Brouckaert (2004) A Model Partnership for Sustainable Production of Safe Drinking Water in Small Rural Water Supplies. The 2nd International Conference on Safe Water November 4-7 Johannesburg, South Africa.
 17. **Momba MNB**, Makala N, Tyafa Z (2004) Working together to ensure safe water to small town residents: A unique partnership reduces the risk of waterborne diseases associated with inadequate treatment. Presented during Water Research Commission open day, Grahamstown: 22 July 2004.
 18. Obi CL, Samie A, Green E, Musie E., Masebe T., Mashota M, Ndou S, **Momba MNB**, Thompson P, Charles K (2004) The efficiency of Disinfection of the Drinking Water in Small Water Treatment Plants in Limpopo and Mpumalanga Provinces of South Africa: Preliminary report. The 2nd International Conference on Safe Water, November 4-7 Johannesburg, South Africa.
 19. **MNB Momba**, Makala N, Koll GSR and Kelly W. (2004) Source of groundwater contamination in the Nkonkobe district of the Eastern Cape Province of South Africa. Poster presentation during the The 2nd International Conference on Safe Water, November 4-7 Johannesburg, South Africa.
 20. Tyafa Z, **Momba MNB** and N. Makala (2006) Safe drinking water still a dream in rural areas of South Africa- Case study: The Eastern Cape Province. Oral presentation during WISA biennial conference and exhibition. 2006, Durban Cape Town.
 21. **Momba MNB**, Osode T and Sibewu M. (2006) The Impact of Inadequate Wastewater Treatment on the Receiving Water Bodies Case Study: Buffalo City and Nkonkobe Municipalities of the Eastern Cape Province. Oral presentation during WISA biennial conference and exhibition. 2006, Durban Cape Town.
 22. **Momba MNB**, T Osode and B Genthe (2006) Health Risk Associated with the Microbiological quality of water sources receiving the effluents from wastewater treatments in the Eastern Cape Province. The WISA Appropriate Technologies Conference, 1 on 1 Gateway, Umhlanga Rock, Kwazulu Natal, 1.2 November 2006.
 23. Obi CL, **Momba MMB**, Onabulu B, Igumbor JO, Ramalivhana J, Van Rensburg EJ, Bessong PO, Green E, Lukoto M, Mulaudzi TD, Ndou S (2006). Antibiotic susceptibility

of enteric bacterial pathogens isolated from HIV/AIDS patients and their household drinking water in rural communities of Limpopo Province. Presented at Mediterranean Congress on Chemotherapy., Italy, 21st – 28th June 2006.

24. Obi C. L. , **Momba M.N.B.**, Samie A , Igumbor J. , Musie E., Green E., Masebe T and Ndou S (2006) .Microbiological indices and management issues of small water treatment plants in Limpopo and Mpumalanga Provinces , South Africa . International Water Association Conference, Beijing , China , 10-14 September , 2006
25. Obi CL, **Momba MMB**, Onabolu B, Igumbor JO, Ramalivhana J, Van Rensburg EJ, Bessong PO, Green E, Lukoto M, Mulaudzi TD, Ndou S.(2006) Water and HIV International Symposium on Medicinal plants , HIV and Related Diseases . South Africa and Japan Bilateral Research Cooperation Symposium , Tohoku University , Sendai- City , Japan
26. Abongo BO, **Momba MNB** and Mwambakana JN (2007) Antibiotic Profiles of *Escherichia coli* 0157:H7 Isolated From Stool Swaps of Diarrhoeic HIV/AIDS Patients Attending Frere Hospital Eastern Cape Province. Oral paper presented at UNISA/South Africa during the HIV/AIDS conference March 15.
27. **Momba MNB**, Akpor OB and Okonkwo J (2007) Role of protozoa in bioremediation of polluted wastewater. Oral paper presented at Industrial Wastewater Management Conference. Park Hyatt Rosebank /Johannesburg 1-2 August.
28. **Momba MNB**, CL Obi and P Thompson (2007) Improving the efficiency of disinfection in small water treatment plants. Oral presentation at Drinking Water Quality Conference Sun City, 19-22 August.
29. Makala N, **MNB Momba**, RW Kelly, Koll Gordon, G Nangmenyi and J. Economy (2007) Microbiological quality of ground water in the Nkonkobe Municipality of the Eastern cape and potential treatment. Oral presentation during Groundwater Conference at Bloemfontein. 8-10 October.
30. **Momba MNB**, Makala N, RW Kelly and N. Mazomba (2008) Possible Threat of the Microbiological and Chemical Contamination of the Mpofu Training Centre Borehole to the Health of the Surrounding Community. Oral presentation during the WISA Biennial Conference Sun City. May <http://www.wisa2008.co.za>
31. **Momba M.N.B** and Malakate V.K. (2008) Are drinking water sources in the Eastern Cape Province playing a role on the spread of *mycobacterium avium* and *mycobacterium intracellulare* in TB patients or visa versa? Oral presentation during the WISA Biennial Conference Sun City. May. <http://www.wisa2008.co.za>
32. Akpor, O.B; **Momba, MNB** and Okonkwo, OJ. (2008) effect of carbon sources on nutrient and cod removal by wastewater protozoa. Oral presentation during the WISA Biennial Conference Sun City. May <http://www.wisa2008.co.za>
33. LP Lukhele, RWM Krause, BB Mamba and **MNB Mamba**(2008) Application of silver impregnated carbon nanotubes and cyclodextrin polymers for the removal of bacteria in water. Oral presentation during the WISA Biennial Conference Sun City. May. <http://www.wisa2008.co.za>

34. **Momba MNB**, N Luthando and T Mazomba (2008) Efficiency and life span of capillary polysulphonate ultra-filtration membrane for the removal of indicator bacteria. Oral presentation during Nanotech Northern Europe 2008 Conference. 23-25 September, Bella Center, Copenhagen.
35. Akpor OB and **Momba MNB** (2009) Phosphate and nitrate removal in a laboratory-scale batch reactor. proceeding of the 2009 International Conference on *Chemical, Biological and Environmental Engineering*, 9-11 October. Singapore. pp 144-148
36. Gordon Nameni, Lizzy Monyatsi, Maurice Onyango, **Maggy Momba** (2009) Ag Modified Oligodynamic Nanoparticle Impregnated Systems and Utility in Water Disinfection. Poster presentation during Nanotech Europe 2009 Conference and Exhibition. 28-30 September, Berlin, Germany.
37. **M.N.B. Momba**, B.B. Mamba, L.P. Lukhele, R.W.M. Krause (2009) Copper impregnated carbon nanotubes and cyclodextrin polyurethanes - An alternative disinfection process for the microbiological safety of drinking water of water. Oral presentation during Nanotech Europe 2009 Conference and Exhibition. 28-30 September, Berlin, Germany.
38. Mpenyana-Monyatsi L, **Momba MNB**, Onyango M, Nameni G and Madoroba E (2009). Groundwater Quality Supply In Rural Community of North West Province: A Possible Threat To Public Health. *Oral Presentation, Groundwater biennial conference. 16-18 November. Somerset West. Western Cape Province, South Africa.*
39. **Momba MNB** and M Dungeni (2010) Removal profile of *Cryptosporidium* and *Giardia* from inadequately treated wastewater – A case study in Tshwane, Northern Gauteng Province. *Oral presentation during the WISA 2010 Biennial Conference, April 18-22, Durban.*
40. Khabo-Mmekoa CMN, **Momba MNB** and Madoroba E (2010) The prevalence of enteric pathogens in drinking water and its impact on the health of HIV/AIDS individuals in Kwa-Zulu Natal Province, South Africa. *Oral presentation during the WISA 2010 Biennial Conference, April 18-22, Durban*
41. Gordon Nameni, Lizzy Mpenyana-Monyatsi, Maurice Onyango, **Maggy Momba** (2010) Cost Effective of Pathogenic Microorganisms using Oligodynamic Nanoparticle Impregnated Natural Zeolites and Sand. *Oral presentation during the WISA 2010 Biennial Conference, April 18-22, Durban.*
42. Mankazana BBJ, M.N.B. **Momba** and J. Okonkwo, (2010). pH: an important parameter for effective comparison in the removal of heavy metal from wastewater treatment systems using protozoa and bacteria. *Oral presentation during the WISA 2010 Biennial Conference, April 18-22, Durban.*
43. Khabo-mmekoa, **MNB Momba**, E Madoroba (2010) Health impact of water-borne pathogens in rural domestic water on HIV/AIDS infected individuals in Kwazulu-Natal Province, South Africa. Oral presentation, 2010 AWWA International Symposium on Waterborne Pathogens. 2-4 May 2010 Manhattan Beach, California, USA.
44. Hadebe N, Monyatsi L, **Momba MNB** and MS Onyango (2010) Deactivation of Microbes in Drinking Water Using Silver Nanoparticles-Impregnated Media. Oral presentation at Moi University 6th Annual International Conference, 7-11 September, Margaret Thatcher Library. Kenya

45. **Momba MNB** and CD Swartz (2010) Management tools for achieving compliance to safe drinking water in rural water supplies. Oral Presentation. 11th WaterNet/WARTSA/GWP-SA Symposium. 21-29 October. Victoria Falls. Zimbabwe..
46. Mpenyana-Monyatsi L, MS Onyango and **MNB Momba** (2010) Groundwater Quality Supply in Rural Community of Mpumalanga Province: A Possible Threat for Public Health. Poster Presentation . 11th WaterNet/WARTSA/GWP-SA Symposium. 21-29 October. Victoria Falls. Zimbabwe.
47. Khabo-Mmekoa C.M.N and **M.N.B Momba** (2010) Poor Household Drinking Water Quality: A Burden for HIV/AIDS Infected Individual with Diarrhea. A Case Study in Ugu District Municipality, Kwazulu-Natal Province. Poster Presentation. 11th WaterNet/WARTSA/GWP-SA Symposium. 21-29 October. Victoria Falls. Zimbabwe.
48. JK Mwabi, FE Adeyemo, TO Mahlangu, BB Mamba , BM Brouckaert, CD Swartz, G Offringa , L Mpenyana-Monyatsi and **MNB Momba** (2010) Household water treatment systems: a solution to the production of safe drinking water by the low-income communities of Southern Africa. Poster Presentation. 11th WaterNet/WARTSA/GWP-SA Symposium. 21-29 October. Victoria Falls. Zimbabwe.
49. Nomcebo Hadebe , Lizzy Monyatsi , Maggy Momba, Maurice S. Onyango (2010) Deactivation of Microbes in Drinking Water Using Silver Nanoparticles-Impregnated Media The Moi University 6th Annual International Conference, on “*Knowledge Management and Applied Technological Innovations for Sustainable Development*”. Oral presentation. 7- 11 September at Main Campus, Margaret Thatcher Library. Kenya. www.mu.ac.ke.
50. **Momba MNB** and M Dungeni (2011) Reconsidering an Appropriate Technology for Small Wastewater Treatment Plants in Developing Countries to Enhance Pathogenic Microorganism Removal: A Case Study in South Africa. 8th International Water Association (IWA) Leading-Edge Conference on Water and Wastewater Technologies. 6-10 June. The Netherland
51. **Momba MNB**, Coetzee M and Okeyo A (2011) The Use of the HACCP Concept to Determine the Cause of Poor Drinking Water Quality in a Combined Distribution System of Two Peri-Urban Small Water Treatment Plants in the Gauteng Province-South Africa. Oral Presentation, WISA Municipal Water Quality Conference, 28--1 July, Cape Town International Conference Centre,/South Africa
52. Mahlangu TO, L. Mpenyana-Monyatsi, BB Mamba and **MNB Momba** (2011) Revaluation of the SIPP for the removal performance on chemical contaminants. Oral Presentation, WISA Municipal Water Quality Conference, 28--1 July, Cape Town International Conference Centre,/South Africa
53. Mankazana BBJ, JO Okonkwo and **MNB Momba** (2011) Relationship of carbon source to cadmium removal by protozoa and bacteria in wastewater treatment system. Oral Presentation, WISA Municipal Water Quality Conference, 28--1 July, Cape Town International Conference Centre,/South Africa
54. Mpenyana-Monyatsi L, N Hadebe, MS Onyango and **MNB Momba** (2011) Cost effective filter materials coated with silver nanoparticles for removing pathogenic microorganisms

- in groundwater. Poster presentation, WISA Municipal Water Quality Conference, 28--1 July, Cape Town International Conference Centre,/South Africa,
55. Kamika I and **MNB Momba** (2011) Determination of tolerance limit of selected bacterial and protozoan species to vanadium in wastewater systems. 2-5 July 2011, Young Water Professional (YWP) Conference, CSIR Conference Center, Pretoria, South Africa. (Poster) [<http://www.wisa.org.za/ywp/ywpc2011/ywpcreg2011.htm>]
 56. **FE Adeyemo** and **MNB Momba** (2011) Effectiveness of various home water treatment devices for the removal of viral indicator from ground and surface water sources. Proceeding of 2nd Regional Conference of the Southern African YOUNG WATER PROFESSIONALS 3rd – 5th July 2011: CSIR International Convention Centre Pretoria, South Africa.
 57. Kamika I and **MNB Momba** (2011) Comparing the tolerance limit of selected bacterial and protozoan isolates to nickel in wastewater systems. 23-26 March 2011, African Institute of South Africa, The AISA Young Graduates and Scholars (AYGS) conference, Birchwood Hotel, Boksburg, South Africa. (Oral) [<http://www.ai.org.za>]
 58. Mwabi JK and **MNB Momba** (2011) Evaluation of cost-effective household drinking water treatment systems to remove bacterial pathogens from water for domestic use in rural communities. 23-26 March 2011, African Institute of South Africa, The AISA Young Graduates and Scholars (AYGS) conference, Birchwood Hotel, Boksburg, South Africa. (Oral) [<http://www.ai.org.za>]
 59. Mwabi JK and **MNB Momba** (2011) Standard and zeolite biosand filters: Cost-effective household water treatment systems for improving the microbiological quality of drinking water. 2nd Regional conference SA Young Water Professionals. Held at the CSIR International Convention Centre in Pretoria from 3-5 July(Poster presentation for abstract)
 60. **MNB Momba** and Kamika (2012) Toxicity and synergic effects of vanadium and nickel on heavy metal-tolerant microbial species in wastewater systems 14-15 February, Dubai, 1st World Biotechnology Congress, Dubai, United Arab Emirates (Oral) www.biotechworldcongress
 61. Kamika and **MNB Momba** (2012) Assessing protozoan ability on the bioremediation of heavy metals in the industrial wastewater collected from Witbank, South Africa. 14-15 February, Dubai, 1st World Biotechnology Congress, Dubai, United Arab Emirates. (Poster) www.biotechworldcongress
 62. Kamika I and **MNB Momba** (2012) Growth inhibition of selected bacterial and protozoan species by heavy metals from polluted South African industrial wastewaters. 5-9 May 2012, Cape Town, South Africa. (Oral Presentations)[www.WISA2012.org.za] [<https://events.confco.co.za/ei/cm.esp?id=227&pageid=33L0LGRP>].
 63. **FE Adeyemo** and **MNB Momba** (2012). Effectiveness of silver impregnated porous pot and various home water treatment devices for the removal of Cryptosporidium and Giardia from surface and ground water sources. *Proceeding of Water Institute of Southern Africa Biennial Conference and Exhibition*, 05 – 09 May, 2012, Cape Town,

64. Kamika I and MNB Momba (2012) Growth inhibition of selected bacterial and protozoan species by heavy metals from polluted South African industrial wastewaters. *Proceeding of Water Institute of Southern Africa Biennial Conference and Exhibition*, 5-9 May 2012, Cape Town, South Africa. (Oral Presentations) www.WISA2012.org.za
<https://events.confco.co.za/ei/cm.esp?id=227&pageid=33L0LGRP>
65. LO Kachienga, JO okonkwo and MNB Momba (2012) Bioremediation of crude oil spill in wastewater by protozoan isolates. Oral presentation during the 13th WaterNet/WASRFSA/GWP-SA symposium, Johannesburg, Birchwood Kempton Park, SA, 31 October to 4 November 2012
66. Momba MNB and I Kamika (2012) Bioremediation of South African Industrial Heavy Metal Wastewaters using Protozoan Species. Oral presentation during the 13th WaterNet/WASRFSA/GWP-SA symposium, Johannesburg, Birchwood Kempton Park, SA, 31 October to 4 November 2012.
67. GZ Teklehaimanot, MAA Coetzee and MNB Momba (2012) Faecal pollution loads in the wastewater effluents and receiving water bodies: a threat to the communities of Sedibeng and Soshanguve, South Africa. Poster presentation during the 13th WaterNet/WASRFSA/GWP-SA symposium, Johannesburg, Birchwood Kempton Park, SA, 31 October to November 2012.
68. Kamika, Ilunga and **Momba, Maggy** (2013): Effect of nickel to nutrient removal by selected indigenous protozoan species in wastewater systems. – In: Brown, A.; Figueroa, L. & Wolkersdorfer, Ch.: *Reliable Mine Water Technology (Vol I)*. – p. 619 – 625; Denver, Colorado, USA (Publication Printers). ISBN 978-0-615-79385-6
69. Kamika, Ilunga and **Momba, Maggy** (2013): Bioremediation of V⁵⁺ and Ni²⁺ by indigenous *Marinobacter Goseongensis* isolated from South African Vanadium Mine Waste. – In: Brown, A.; Figueroa, L. & Wolkersdorfer, Ch.: *Reliable Mine Water Technology (Vol I)*. – p. 613 – 618; Denver, Colorado, USA (Publication Printers) ISBN 978-0-615-79385-6
70. Kachieng'a, L & Momba, MNB. 2013. Effect of biomass concentration in the biodegradation of crude oily wastewater. **Oral presentation 4th Municipality Water Quality Conference**. 07 - 11 July 2013, Sun City, South Africa.
71. Baloyi, L Mpenyana, MNB Momba (2014). Synthesis and characterisation of silver nanoparticles impregnated in resin and alginate beads for antibacterial properties. Oral Presentation during the 5th International conference on Nanoscience and Nanotechnology (NanoAfrica). 30 March to 02 April 2014., Vaal University of Technology, Gauteng, South Africa.
72. Mboyi A., Musee N, Zvimba J.N. and Momba M.N.B. 2014. Toxicity effect of Ag and ZnO engineered nanoparticles on wastewater bacteria: Environmental risks. Poster presentation, 4th NanoAfrica conference. 30th March -3rd April, Vaal University of Technology, Gauteng, South Africa. (Awarded 2nd price).

73. Mboyi A., Musee N, Zvimba J.N. and Momba M.N.B. 2014. Potential effect of Ag and ZnO engineered nanoparticles on selected wastewater bacteria: Oral presentation, WISA 2014 Biennial conference, 25 - 28 May, Mbombela/Mpumalanga, South Africa
www.ewisa.co.za/misc/WISAConf/WISA2014
74. L Baloyi, L Mpenyana, MNB Momba (2014). Drinking water disinfection using silver alginate and silver resin nanoparticle beads: A comparative study. Oral presentation during the WISA 2014 Biennial Conference. 26-28th of May. Mbombela/ Mpumalanga, South Africa. www.ewisa.co.za/misc/WISAConf/WISA2014
75. BALOYI, L., MPENYANA-MONYATSI, L. & MOMBA, M. N. B. 2014. Synthesis and characterisation of silver nanoparticles impregnated in resin and alginate beads for antibacterial properties. Oral Presentation, 5th International conference on Nanoscience and Nanotechnology (NanoAfrica), Quest Conference Estate-Vanderbijlpark. 30 March – 02 April 2014. Gauteng, South Africa.
76. Sudharshan Sekar, Aime Eroko and MNB Momba (2014) Metagenomics: DNA sequencing of environmental samples from acid mine drainage. Poster Oral presentation during the WISA 2014 Biennial Conference. 26-28th of May. Mbombela/ Mpumalanga, South Africa. www.ewisa.co.za/misc/WISAConf/WISA2014
77. I Kamika, M Coetzee, BB Mamba, T Msagati, MNB Momba (2014) Effect of Covered and Uncovered Fermenters on the Microbial Diversity and Volatile Fatty Acid in the Enhanced Biological Phosphorus Removal Process: Case-Study in Johannesburg Northern Wastewater Treatment Works. Oral presentation during the the IWA World Water Congress & Exhibition, 21-26 September 2014. Lisbon/Portugal.
78. **Momba MNB** (2014) Bioremediation of Polluted Wastewater –Could European Research And Technology Help Developing Countries? Key Address during EU Industrial Technologies 2014 conference, April 9 – 11, 2014. Athens/Greece.
79. **Momba MNB** (2014). The challenge of drinking water disinfection in developing countries. Key address during the one day. Key note Speaker during the 2nd symposium on UV disinfection in developing countries. 6 November .UNESCO- IHE/Delft. The Netherland.
80. Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, **Maggy NB Momba** (2014) Enhanced Activity of Metal Doped Titanium Dioxide in Photo catalytic Ozonation. *Oral presentation* during Conference proceedings, International Conference on Chemical Engineering and Advanced Computational Technologies (ICCEACT'2014) Nov. 24-25, 2014 Pretoria, South Africa.
81. ALK Abia, E Ubomba-Jaswa, M Du Preez, **MNB Momba** (2014) Riverbed sediments in the Apies River, South Africa: determining the extent of microbial contamination and identifying a suitable indicator for measuring microbial quality. Poster Presented at IASWS international symposium 2014, Grahamstown, South Africa. <http://www.iasws2014.co.za/index.php/abstracts>
82. ALK Abia, E Ubomba-Jaswa, CC Ssemakalu, **MNB Momba** (2014) Development of a rapid approach for the enumeration of *Escherichia coli* in riverbed sediment: Case study, the Apies River, South Africa. *Oral Presentation*. IASWS international symposium 2014, Grahamstown, South Africa. <http://www.iasws2014.co.za/index.php/abstracts>

83. Kachieng'a L. & **Momba, MNB** (2014) Biodegradation of Hydrocarbon Chains of Crude Oil By-products by Selected Protozoan Isolates in Polluted Wastewaters. *Published in a conference proceedings: An Interdisciplinary Response to Mine Water Challenges - Sui, 'Sun & Wang (eds) ©2014 China University of Mining and Technology Press, Xuzhou, ISBN 978-7-5646-2437-8.*
84. Achisa C Mecha, Maurice S Onyango, Ochieng' Aoyi, and **Maggie NB Momba** (2014) Enhanced Activity of Metal Doped Titanium Dioxide in Photo catalytic Ozonation Int'l Conf. on Chemical Engineering & Advanced Computational Technologies (ICCEACT'2014) Nov. 24-25, 2014 Pretoria (South Africa).
85. Sarah C. Motshekga, Suprakas Sinha Ray, Maurice S. Onyango, and **Maggie N. B. Momba** (2015) Development of silver and zinc oxide decorated nanoclay containing polymeric composites for water disinfection applications. AIP Conference Proceedings 1664, 070011. doi: 10.1063/1.4918444.online: <http://dx.doi.org/10.1063/1.4918446>.
86. Keshri J, Mankazana BBJ, **Momba MNB** (2015). Exploration of metal tolerant bacterial communities with potential bioremediation of mine waters ICARD/IMWA 2015 Conference; 10th International Conference on Acid Rock Drainage (ICARD) .
87. BALOYI, L., MPENYANA-MONYATSI, L. & **MOMBA, M. N. B.** (2015). Evaluation of the performance of resin-silver nanoparticle filter system and alginate-silver nanoparticle filter system in removing parasites from surface water. Oral Presentation, DST-Howard University Advance-IT Woman in STEM Conference. 27- 29 October 2015. Gauteng, South Africa.
88. BALOYI, L., MPENYANA-MONYATSI, L. & **MOMBA, M. N. B.** (2015). Silver nanoparticle polymer filter systems with sand: An evaluation for removal of pathogenic bacteria. Oral Presentation, 5th Annual Gauteng's Nanosciences Young Researcher's Symposium (NYRS). 9 October 2015. Gauteng, South Africa.
89. BALOYI, L., MPENYANA-MONYATSI, L. & **MOMBA, M. N. B.** (2015). Silver nanoparticle filter systems: A Point-of-use drinking water treatment for the removal of bacterial pathogens and protozoan parasites. Poster Presentation, 18th International Symposium on Health-Related Water Microbiology. 13-19 September, 2015. Lisbon, Portugal.
90. Mecha CA, Onyango MS, Aoyi O, **Momba MNB** (2015) Synergistic effect of photocatalytic ozonation in phenol degradation. TIIKM'S 2nd Annual International Conference on Nanoscience and Nanotechnology 2nd – 4th September, 2015, Hotel Galadari, Colombo, Sri Lanka, ISBN: 978-955-4903-32-6.
91. Abia A.L.K., Ubomba-Jaswa E., **Momba M.N.B.** (2015). High prevalence of Multiple Antibiotic-Resistant (MAR) bacteria in riverbed sediments of the Apies River, South Africa: a possible health threat to populations living in resource poor settings. Oral presentation. 2015 Water Microbiology Conference, 18 – 22 May 2015, University of North Carolina, USA. <https://waterinstitute.unc.edu/files/2015/06/Abia-UNC-Conference-AST-USA.docx>.
92. Budeli P, L Mpenyana-Monyatsi, I Kamika and **MNB Momba.** (2015). Status of water sources, hygiene and sanitation and its impact on the health of households of Makwane Village, Limpopo Province, South Africa. **Oral presentation** during 16

WaterNet/WARFSA/GWP-SA Symposium. 28-31 October. Le Meridien Ile Maurice Hotel, Mauritius.

93. Mboyi A., I. Kamika, and **M.N.B. Momba** (2015) Detrimental effects of commercial zinc oxide and silver nanomaterials on bacterial populations and performance of wastewater systems. Oral presentation during 16 WaterNet/WARFSA/GWP-SA Symposium. 28-31 October. Le Meridien Ile Maurice Hotel, Mauritius.
94. A. Mboyi, I. Kamika and **M.N.B. Momba** (2015). Nanotoxicity effects of Zinc oxide and Silver nanomaterials on selected bacterial population. Oral Presentation, 9th Annual Africa Young Graduate Scholars Conference, University of Cape Town, South Africa.
95. Weber V, I Kamika and **MNB Momba** (2015) Ability of indigenous moderately halophilic bacteria in removing zinc oxide and titanium dioxide nanoparticles in wastewater, South Africa. Oral presentation during the 4th YWP-ZA Biennial and 1st African IWA YWP (Young Water Professional African) Conference, 16-18 November, Council for Scientific and industrial Research conventional Centre. Pretoria, South Africa.
96. Mofahlosi R.M Chuene and **Maggy N.B Momba** (2015). Disinfection of waterborne pathogens in drinking water by coupled nanoparticles-ozonation system. Poster presentation during the 4th YWP-ZA Biennial and 1st African IWA YWP (Young Water Professional African) Conference, 16-18 November, Council for Scientific and industrial Research conventional Centre. Pretoria, South Africa.
97. Ekwanzala MD, Abia LKA, Ubomba-Jaswa E, Keshri J, **Momba MNB**. (2015) Molecular relatedness study on indicator and pathogenic bacteria isolated from water and riverbed sediments of Apies River. Poster Presentation. African YWP Conference. 4th YWP ZA Biennial and 1st African YWP Conference. 16-18 November 2015, Pretoria, South Africa.
98. Kachienga, L and **Momba, MNB**. (2016). Biodegradation of functional groups of hydrocarbon backbones of petroleum oil contaminated water using a consortium of protozoan isolates. Oral/Poster presentation. 17th WaterNet/WAFSA/GWP-SA Symposium 28th to 30th October 2016, Gaborone, Botswana.
99. Kachienga, L and **Momba, MNB**. (2016). The use of selected protozoan (*Aspidisca* sp., *Trachelophyllum* sp. and *Peranema* sp) species in biodegradation of hydrocarbon pathways chains from crude oil by-products in polluted water. Oral Presentation. 15th to 19th of May 2016, WISA Conference, ICC Durban, South Africa.
100. Kachienga, L and **Momba, MNB**. (2016). Effect of increasing biomass of selected protozoan isolates on biodegradation of crude oil (petroleum) spill by-products polluted wastewater. Oral Presentation. 16-18th of November 2015, Young Water Professional-WISA Conference. Pretoria, South Africa.
101. Mecha A. C., Onyango M. S., Ochieng A., and **Momba M. N. B.** (2016). Enhanced degradation of phenol using photocatalytic ozonation. Oral presentation. Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition 15-20 May 2016, Durban International Convention Centre, South Africa.
102. Makanzana J, Keshri J and **MNB Momba** (2016) The profile of metal tolerant bacterial community in South African mine water using Illumina next generation sequencing platform. e-poster presentation during WISA conference. Durban, ICC 15th - 19th May 2016.

- 103.** Colette Khabo-Mmekoa and **Maggy NB Momba** (2016) Tracking the source of enteropathogenic organisms in drinking water supplied to Ugu District Municipality, S.A. e-poster presentation during WISA conference. Durban, ICC 15th - 19th May 2016
- 104.** RC Moropeng, L penyana-Monyatsi, and **MNB Momba** (2016). Reconsidering hygiene, sanitation and storage practices for improving microbial quality of drinking water treated at the point of use in rural areas of Africa: A case study in Makwane village, South Africa. Presented at 17th WaterNet/WARFSA/GWPSA Symposium. Gaborone/Botswana
- 105.** Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, and **Maggy NB Momba** (2017) Photocatalytic ozonation treatment of municipal wastewater. The 14th IWA Leading Edge Conference on Water and Wastewater Technologies, Florianopolis, Brazil 29 May – 02 June 2017.
- 106.** Achisa C Mecha, Maurice S Onyango, Aoyi Ochieng, and **Maggy NB Momba**, (2017). Synthesis, characterization and evaluation of TiO₂ for UV and solar photocatalytic treatment of municipal wastewater. 2nd International Conference on Energy, Environment and Climate Change (ICEECC 2017), 5 - 7 July 2017, Le Meridien Hotel Pointe aux Piments Mauritius.
- 107.** LK Abia, GZ Teklehaimanot and **MNB Momba** (2018) Predictability of potential health risks associated with microbial pathogens exposure from untreated river waters and sediments around Gauteng South Africa using quantitative risk microbial assessment. International Conference, Water Science for Impact. Oral Presentation. 16-18 October Orion Wageningen, The Netherlands.
- 108.** Vanessa Weber, Ilunga Kamika and **Maggy NB Momba** (2018) Degradation of zinc oxide and titanium dioxide nanoparticles by indigenous moderately halophilic bacteria in wastewater. Platform presentation. IWA World Water Congress & Exhibition 2018. 16-21 September 2018. Tokyo/Japan
- 109.** Mboyi, A., Kamika, I., Mokgalaka, N.S. & **Momba, M.N.B.** (2019). Fabrication of freshwater algae to synthesis metal and metal oxide nanomaterials: Antimicrobial activity, Oral Presentation, international Young water Professionals, Canada, Toronto, 23-27 June 2019
- 110.** Colette Khabo-Mmekoa and **Maggy Ndombo Benteke Momba** (2019) Impact of social disparities on microbiological quality of drinking water supply and health of HIV/AIDS infected individuals: A case study in Ugu District Municipality. Oral Presentation. 20th Symposium on health-related water microbiology. Vienna, Austria. 15-20 September 2019.
- 111.** Ekwanzala, M. D., Dewar, J. B., Kamika, I., & **Momba, M. N. B.** (2019). Dissemination of antibiotic-resistant bacteria from hospital wastewater to the aquatic environment. Speaker. Reclaimed Water & Occupational Health Risks Workshop. 25 July 2019, NHLS, Johannesburg, South Africa.
- 112.** Ekwanzala, M. D., Dewar, J. B., Kamika, I., & **Momba, M. N. B.** (2019). Tracking the environmental dissemination of carbapenem-resistant *Klebsiella pneumoniae* using whole-genome sequencing. Oral Presentation. Conference on Genomics, Proteomics and Metabolomics: All in Bioinformatics (CGPMG-2019). 27-28 July 2019, Empangeni, South Africa.

113. Ekwanzala, M. D., Dewar, J. B., Kamika, I., & **Momba, M. N. B.** (2019). From hospital wastewater to receiving waterbodies: dissemination of antibiotic-resistant bacteria. Poster with a 3 min Platform Presentation. 20th International Symposium on Health-Related Water Microbiology. 15-20 September 2019, Vienna, Austria.
114. Ekwanzala, M. D., Dewar, J. B., Kamika, I., & **Momba, M. N. B.** (2019). Comparative genomics of environmental vancomycin-resistant *Enterococcus* spp.: from hospital wastewater to water resources. Oral Presentation. 6th South African YWP Biennial Conference. 20-23 October 2019, Durban ICC, South Africa.
115. Ekwanzala, M. D., Dewar, J. B., Kamika, I., & **Momba, M. N. B.** (2019). Dissemination of antibiotic-resistant bacteria from hospital wastewater to the aquatic environment. Speaker. World Antibiotic Awareness Week (WAAW). 18 November 2019, University of Johannesburg, Johannesburg, South Africa.
116. Ekwanzala, M. D., Dewar, J. B., Kamika, I., & **Momba, M. N. B.** (2019). Resistome risks of wastewaters and aquatic environments deciphered by shotgun metagenomic assembly. Oral Presentation. The First Stellenbosch University African Microbiome Workshop and Symposium. 28 – 30 November 2019, STIAS, Stellenbosch, South Africa.
117. Ekwanzala, M. D., Dewar, J. B., & **Momba, M. N. B.** (2020). GenoTrack, a webtool to geospatially link bacterial genomes from water, food and clinical environments. Oral Presentation. Water Institute of Southern Africa (WISA) 2020 Virtual Conference. 07 - 11 December 2020, South Africa.
118. Raseala CM, Ekwanzala MD, Kamika I and **Momba MNB** (2020) Multilocus-based phylogenetic analysis of extended-Spectrum beta lactamase Escherichia coli O157: H7 uncovers related strains between agriculture and nearby water sources. Oral Presentation. Water Institute of Southern Africa (WISA) biennial virtual conference. 7-11 December 2020. South Africa
119. Ramaite, K., Ekwanzala, M.D., Dewar, J.B., & **Momba, M.N.B.** (2020). Occurrence and molecular characterization of extended-spectrum beta-lactamase-producing Shiga toxin-producing Escherichia coli from cattle farm to aquatic environments. Poster Presentation. WISA 2020 Virtual Conference. 7-11 December 2020. Online Conference, WISA, South Africa.
120. Netsianda vision, Coetzee AA Marthie & **Momba NB Maggy** (2020). The effect of nonylphenol and dibutyl phthalate in the isolation and growth response of bacteria and protozoa. Oral presentation. WISA 2020 online conference. 7-11 December 2020. Johannesburg, South Africa
121. Colette Khabo-Mmekoa and **Maggy Momba** (2020). Establishing the association of enteropathogenic bacteria of household stored water and diarrhoeal stool. Oral presentation WISA 2020 Virtual Conference. 7-11 December 2020. Sandton Convention Centre, Johannesburg, South Africa.

Other significant conference outputs

1. LP Lukhele, RWM Krause, **MNB Momba** and BB Mamba (2008) Application of silver impregnated carbon nanotubes and cyclodextrin polymers, for the destruction of bacteria in water -.Oral Presentation during Water Research Showcase. 15 August. Tshwane University of Technology. Pretoria
2. M Dungeni, **MNB Momba** and RR van der Merwe (2008) Activated sludge performance monitoring of four sewage treatment plants in northern Gauteng and its relation to water pollution control of receiving water bodies- Oral Presentation during Water Research Showcase. 15 August. Tshwane University of Technology. Pretoria.
3. CMN Khabo-Mmekoa, **MNB Momba**, CL Obi (2008).Health impact of water-borne pathogens in rural domestic water on HIV/AIDS infected individuals in Kwazulu-Natal province, South Africa- Oral Presentation during Water Research Showcase. 15 August. Tshwane University of Technology. Pretoria.
4. **Momba MNB** (2011) Water management to improve the safety of produce and processed foods. Key Speaker during South African Association for Food Science &Technology Water Safety and Quality Workshop. 14 June. Pretoria/South
5. Kachieng'a, L & **Momba, MNB**. (2012). Biodegradation of crude oil spill by-products (petroleum) polluted wastewater by selected protozoan isolates. **Oral presentation. Seminar on Egypt-South Africa Water Research and Innovation Collaboration (WRIC)**. 19 November 2012, Tshwane University of Technology, Arcadia Campus, Pretoria, South Africa.
6. **Momba MNB** (2014) Water and Wastewater Management for the Sustainability of Water Resources-Where is Africa. Public lecture-University of Wisconsin and Milwaukee Global Water Centre. 27 September - 4October. USA.

Prototypes

1. **Momba MNB**, G. Nameni and CermaLab (2009) A prototype nanotechnology-based clay filter pot (Silver impregnated porous pot: SIPP) to purify water for drinking and cooking in rural homes.
2. **Momba MNB**, GZ Teklehaimano and CermaLab (2013) Biosand Zeolite Silver Impregnated Clay Granular Filter to purify water for drinking and cooking in rural homes.
3. Mpenyana-Monyatsi L and **Momba MNB** (2012) A silver nanoparticle-cation resin filter system for drinking water purification
4. **Momba MNB** and Achisa Mecha Cleophas (2016) A prototype-based solar radiation-ozonation coupled system for the treatment of wastewater using metal doped titanium dioxide.

Products

1. Kamika I and **MNB Momba** (2013) - 16S rRNA gene sequence of the isolate MWI-1 (*Marinobacter* sp. MWI-1) that has been deposited in DNA Data Bank of Japan (DDBJ), available under accession number AB793286.

2. Kamika I and **Momba MNB** (2013) - Isolation for the first time of a eukaryotic gene (*van2*) encoding the resistance of vanadium into a prokaryotic cell (*Peranema* - a protozoan species).
3. ALK Abia, E Ubomba-Jaswa, CC Ssemakalu, **MNB Momba** (2015) Development of a new method, known as the “water-displacement method”, which is based on the volume of water displaced by the sediment (sediment volume). This method was found to give a better yield of the sediment-bound *E. coli*, was more time-efficient, required less equipment and was highly reproducible compared to traditionally used approaches. In addition, the better yield obtained with the method reduced the risk of underestimation of the microbial load in the sediments. With the water-displacement method, the comparison of water and sediments *E. coli* counts was facilitated by the expression of both counts in the same units of measurement (MPN/100 mL).
4. Ekwanzala & **MNB Momba** (2016) - 16S rRNA, 23S rRNA, *invA* and *ipaH* gene sequences of the isolated faecal bacteria, *Enterococcus* spp., *Salmonella* spp., and *Shigella* spp. deposited in DNA Data Bank of Japan (DDBJ) and available under the following accession numbers: LC110414 (ECS127F), LC110415 (ECS227F), LC110416 (ECS327F), LC110417 (ECS427F), LC110418 (ECS527F), LC110419 (ECS627F), LC110420 (ECS727F), LC110421 (ECS827F), LC110422 (ECS927F), LC110423 (ECS1027F), LC110424 (ECS1127F), LC110425 (ECS1227F), LC110426 (ECS1327F), LC110427 (ECS1527F), LC110428 (ECS1627F), LC110429 (ECW127F), LC110430 (ECW227F), LC110431 (ECW327F), LC110432 (ECW427F), LC110433 (ECW527F), LC110434 (ECW627F), LC110435 (ECW727F), LC110436 (ECW827F), LC110437 (ECW927F), LC110438 (ECW1027F), LC110439 (ECW1127F), LC110440 (ECW1427F), LC110441 (ECW1527F), LC110442 (ECW1627F), LC111439 (ETW1), LC111440 (ETW2), LC111441 (ETW3), LC111442 (ETW4), LC111443 (ETW5), LC111444 (ETW6), LC111445 (ETS1), LC111446 (ETS2), LC111447 (ETS3), LC111448 (ETS4), LC111449 (ETS5), LC111450 (ETS6), LC111451 (ETS7), LC111452 (ETS8), LC111453 (ETW7), LC111454 (ETW8), LC111455 (ETW9), LC111456 (ETS9), LC111457 (ETS10), LC111458 (ETS11), LC111459 (ETW10), LC111460 (ETS12), LC111461 (ETW11), LC111462 (ETW12), LC111463 (ETS13), LC111464 (ETS14), (SALW2), LC111467 (SALW3), LC111468 (SALW13), LC111469 (SALW14), LC111470 (SALW12), LC111471 (SALW11), LC111472 (SALW10), LC111473 (SALW9), LC111474 (SALS12), LC111475 (SALW01), LC111476 (SALW8), LC111477 (SALS1), LC111478 (SALS2), LC111479 (SALW7), LC111480 (SALS11), LC111481 (SALS10), LC111482 (SALW6), LC111483 (SALS9), LC111484 (SALS8), LC111485 (SALS7), LC111486 (SALS6), LC111487 (SALS5), LC111488 (SALS4), LC111489 (SALW5), LC111490 (SALS3), LC111491 (SALW4), LC111492 (SHIGW2), LC111493 (SHIGS1), LC111494 (SHIGW3), LC111495 (SHIGW4), LC111496 (SHIGW1), LC111497 (SHIGS2), LC111498 (SHIGS3), LC111499 (SHIGS4), LC111500 (SHIGW5), LC111501 (SHIGS5), LC111502 (SHIGW6), LC111503 (SHIGW7), LC111504 (SHIGW8), LC111505 (SHIGS6), LC111506 (SHIGS7), LC111507 (SHIGW9), LC111508 (SHIGS8), LC111509 (SHIGW10), LC111510 (SHIGS9), LC111511 (SHIGS10), LC111512 (SHIGS11), LC111513 (SHIGS12), LC111514 (SHIGW11), LC111515 (SHIGS13), LC111516 (SHIGW14), LC111517 (SHIGW13) and LC11151 (SHIGW12).
5. Ekwanzala D, Dewar J, Kamika I, **Momba MNB** (2019) *Klebsiella*: The Bioproject accession number for this whole genome sequencing study is PRJNA524761 and each sample was deposited in a Biosample with accession numbers from SAMN10992588 to SAMN10992604. Raw reads were deposited in the Sequence Read Archive with accession numbers from SRR8651533 to SRR8651549.

6. Ekwanzala D, Dewar J, Kamika I, **Momba MNB** (2019) Enterococcus: The current study was registered at the NCBI with a bioproject accession number PRJNA534421. Individual biosamples accession numbers span from SAMN11490016 to SAMN11490029. Individual raw reads from SRR8948878 to SRR8948891 are domiciled in the Sequence Read Archive of the NCBI.
7. Ekwanzala D, Dewar J, Kamika I, **Momba MNB** (2019) Shotgun metagenomics: Generated raw sequencing data were registered and deposited at the European Nucleotide Archive under accession number PRJEB34690
8. Ekwanzala D, Dewar J, Kamika I, Momba MNB (2019) *Citrobacter koseri*: The whole-genome shotgun sequencing project of this strain was deposited at DDBJ/ENA/GenBank under the BioProject number PRJNA543985 and BioSample accession number SAMN11793481. Raw sequences were deposited in the Sequence Read Archive (SRA) under the accession numbers SRR9099020.

Patents

Momba MNB, RC. Moropeng, P. Budeli and and CermaLab (2016): Water Treatment (Biosand-Zeolite-silver impregnated granular clay filters) *Provisional Patent Specification: 2016/02883*

Momba MNB and Ekwanzala D (2020): A computer-implemented genome tracking method and system *Provisional Patent Specification: 2020/04797*

Monographs, Dissertations/ Theses

1982: Visual disability education in Kinshasa/Democratic Republic of the Congo. Monograph for BA degree (in applied pedagogy). Pedagogic Institute of Gombe, Kinshasa-Zaire.

1983: Prominence of *Escherichia coli* in posterior intestine of different types of fish: *Bagrus* (*Bagridae*), *Citharinus* (*Citharinidae*), *Distichodus* (*Citharinidae*), *Labeo* (*Cyprinidae*), *Mormyrus* (*Mormyridae*). BSc dissertation (in Biology). University of Kisangani, Kisangani, DRC (Zaire).

1985: Identification of selected *Enterobacteraceae* from the digestive tracts of *Citharinus congicus*. BSc Honours dissertation (in Biology). University of Kisangani, Kisangani, Democratic Republic of Congo (Zaire).

1995: Phosphate removal in activated sludge and its relationship to biomass. MSc thesis (in Microbiology). University of Pretoria, South Africa.

1997: The impact of disinfection processes on biofilm formation in potable water distribution systems. PhD thesis (in Microbiology). University of Pretoria. South Africa