

25. **Jacobs, F.J.F., Brink, A., Venter, G.J.S.** 2018. (lecture) Rhenium radiopharmaceutical models inspired by biological moieties. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033223](#)
26. **Kama, D.V., Brink, A., Alberto, R.A., Roodt, A.** (Flash oral presentation and Poster). Systematic phosphine ligand design: Some structural implications on catalysis and radiopharmaceuticals. Indaba 9, Skukuza, Kruger National Park, South Africa, 2-7 September 2018. [ufs-033225](#)
27. **Kama, D.V., Brink, A., Schutte-Smith, M., Swart, C., Alberto, R.A., Roodt, A.** 2018. (lecture) Selective Diphosphinoamine Ligand Design: For Platinum-Group Metal Catalysts and Group 7 Theranostic Synthons. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033227](#)
28. **Khasemene, M., Roodt, A.** 2018. (lecture) Middle and late transition metal complexes as model water reduction catalysts. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033228](#)
29. **Mokolokolo, P.P., Pretorius, C., Schutte-Smith, M., Brink, A., Roodt, A.** 2018. (Flash Oral presentation and Poster). Rhodium(I) Carbonyl Complexes as Model Nano-Wired Assemblies and Catalysts. Indaba 9, Skukuza, Kruger National Park, South Africa, 2-7 September 2018. [ufs-033229](#)
30. **Mokolokolo, P.P., Tsosane, M.S., Kama, D.V., Schutte-Smith, M., Brink, A., Visser, H.G., Meola, G., Frei, A., Alberto, R.A., Roodt, A.** 2018. (lecture) Electronic and steric manipulation of Schiff-base and Oxine-type ligand systems to selected middle and late transition metal carbonyl cores. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018 [ufs-033230](#)
31. **Kamiński, R., Jarzemska, K. N., Paliwoda, D., Petříček, V., Pretorius, C., Roodt, A.** 2018. (Poster) High-pressure single-crystal X-ray diffraction study of a model Rh complex exhibiting metallophilic interactions in the solid state. 31st European Crystallographic Meeting, Oviedo, Spain, 22-27 Aug 2018. [ufs-033239](#)
32. **Morerwa, Z.G., Roodt, A., Venter, G.J.S.** 2018. (lecture) Environmentally Friendly Rhodium(I) Model Catalysts. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033252](#)
33. **Motente, M., Schutte-Smith, M., Roodt, A.** 2018. (lecture) Radiopharmaceuticals: Developing potential radiopharmaceutical agents using natural product ligand systems. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033253](#)

34. **Nkoe, P.I., Brink, A., Schutte-Smith, M.** 2018. (lecture) Investigation of the coordination behavior of nitrogen and oxygen containing ligands with rhenium(I) tricarbonyl and the potential use as radiopharmaceuticals. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033233](#)
35. **Roodt, A.** 2018. (Keynote Lecture). Successful modeling of the total chemical process: is this viable and possible? Indaba 9, Skukuza, Kruger National Park, South Africa, 2-7 September 2018. [ufs-033234](#)
36. **Roodt, A.** (Keynote Lecture) Detailed Reaction Mechanisms: Quo Vadis? ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033235](#)
37. **Roodt, A.** 2018. (Keynote Lecture). Expanding diagnostic nuclear medicine: some perspectives. Official Inauguration and IUCr Open laboratory, Abidjan, Ivory Coast, 22-31 March 2018. [ufs-033236](#)
38. **Taoana, T.N., Twigge, L., Venter, J.A.** 2018. (Lecture) Structural and mechanistic study on a rhodium acetylacetonato derivative. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033237](#)
39. **Roodt, A.** 2018. (Invited Lecture). Advanced studies of reaction mechanisms. New Frontiers in Chemical Science (NFCS), Indian Institute for Technology Bombay, Mumbai, India. 13-14 December 2018. [ufs-033238](#)
40. **Schutte-Smith, M., Twigge, L., Alexander, O.T., Visser, H.G., Roodt, A., Manicum, A.-L.** 2018. (Keynote Lecture) Carbonyl Activation in Rhenium(I) Complexes – a solid and solution state study. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033240](#)
41. **Roodt, A.** 2018. (Plenary lecture) Properties and applications of crystals/crystallography. 5th European Crystallographic School, University of Stellenbosch, South Africa. 8-14 July 2018. [ufs-033241](#)
42. **Venter, G.J.S.** (Keynote Lecture) β -diketones and their derivatives in Rh(I) dicarbonyl and phosphine complexes. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033242](#)
43. **Redgard, S., Roodt, A.** 2018. (lecture) Nucleophile assisted CO₂ fixation for a cleaner environment. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. [ufs-033243](#)

44. **Venter, J.A., Drost, R.M., Warsink, S.** 2018. (Keynote Lecture) Steric and electronic relationships in selected rhodium phosphine complexes. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. **ufs-033244**
45. **Viljoen, J.A., Roodt, A., Visser, H.G.** 2018. (lecture) Some Aspects of the Coordination Environment of Hafnium. ReMec1: 1st Symposium on Reaction Mechanisms, Bloemfontein, South Africa. 13-14 November 2018. **ufs-033245**
46. **Schutte-Smith, M, Manicum, A.L., Visser, H.G.** 'A Solid State and Mechanistic Study of Carbonyl Activation in Rhenium (I) Complexes'. 7th EuCheMS Chemistry Congress, 26-30 August 2018, Liverpool, England, UK. (Oral Presentation) **ufs-033246**
47. **Invited Lecture: Brink, A.** 2018. *Small Molecule to Macromolecular – A Wonderland Journey for Radiopharmaceuticals* (Oral). SciDataCon 2018 – International Data Week, Gaborone, Botswana, 5-8 Nov 2018. <https://www.scidatacon.org/IDW2018/sessions/223/> **ufs-033247**
48. **Brink, A.** 2018. *Modifying the RheManTec Triad – A small molecule meanders into the macromolecular world.* (Poster). 31st European Crystallographic Meeting, Oviedo, Spain, 22-27 Aug 2018, Acta Cryst., 2018, A74, e381. **ufs-033248**
49. **Azov, V. A.** 2018. (Lecture) Dynamic Molecular Architectures Based on Tetrathiafulvalenes. 43rd National Convention of the South African Chemical Institute SACI-2018, Pretoria, South Africa. 2-7 December 2018. **ufs-033249**
50. **Xantini, Z., Erasmus, E.** 2018. *Preparation, characterisation and comparing 3 different catalytic supports for hydrogenation of unsaturated carbonyl compounds.* (Poster) CATSA 2018, Legend Golf & Safari Resort, Limpopo, South Africa, 11-14 November 2018. **ufs-033254**
51. **Masene, M., Erasmus, E.** 2018. *Bimetal cyanometallates used as a heterogeneous catalyst.* (Oral) CATSA 2018, Legend Golf & Safari Resort, Limpopo, South Africa, 11-14 November 2018. **ufs-033256**

53. **Meyer, N., Swarts, J.C.** 2018. (poster) Electrochemical and spectroscopic studies on sterically hindered corroles and their gold(III) complexes, 10th International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich, Germany. **ufs-033257**
54. **Crause, A., Swarts, J.C.** 2018. (poster) Synthesis, spectroscopic and electrochemical properties of contracted and expanded porphyrins. 10th International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich, Germany **ufs-033259**
55. **Swarts, J.C., Lewtak, J., Langner E.H.G.** 2018. (oral) Synthetic, electrochemical and spectroscopic studies on new subphthalocyanines. 10th International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich, Germany **ufs-033260**
56. **C.-W. Tsai, E.H.G. Langner, J.J. Terblans, H.C. Swart, R.A. Harris.** 2018. (poster) Computational study of ZIF with functional groups for CO₂ adsorption, 63rd Annual Conference of the South African Institute of Physics, Bloemfontein, 25-29 June 2018. **ufs-033261**
57. **Mogale, R., EHG, Langner, E.H.G.,** 2018. (oral) ZIF-8(Zn) and NH₂-MIL-53(Al) As Supports For Pd and Ag Crystallites with Application in Heterogeneous Catalysis. CATSA 2018, Legend Golf & Safari Resort, Limpopo, South Africa, 11-14 November 2018. **ufs-033262**
58. **Mphuthi L., Langner E.H.G.,** 2018. (poster) Metal exchange in nZIF-8 and nZIF-67 with Fe(II) for heterogeneous catalytic applications, NanoSmat-Africa 2018, NH The Lord Charles Hotel, Western Cape, South Africa, 19-23 November 2018 **ufs-033336**
59. **Mogale, R., Langner E.H.G.,** 2018. (oral) ZIF-8(Zn) and NH₂-MIL-53(Al) As Supports For Pd and Ag Crystallites with Application in Heterogeneous Catalysis, NanoSmat- Africa 2018, NH The Lord Charles Hotel, Western Cape, South Africa, 19-23 November 2018 **ufs-033337**
60. **C.-W. Tsai, E.H.G. Langner, J.J. Terblans, H.C. Swart, R.A. Harris.** 2018. (poster) Zeolitic Imidazolate Framework nanomaterial with functional groups for CO₂ adsorption, NanoSmat-Africa 2018, NH The Lord Charles Hotel, Western Cape, South Africa, 19-23 November 2018 **ufs-033339**
61. **Mensah, P., Katerere, D., Hachigonta, S., Roodt, A.** 2018. **Book** – 1st Edition (Springer, p. 1-329). Systems Analysis Approach for Complex Global Challenges. ISBN 978-3-319-71486-8. Cham, Switzerland > **ufs-033368**
62. **Roodt, A., Alberto, R.A., Frei, A., Mokolokolo, P.P., Bollinger, R., Brink, A., Kama, D.V.** Patent. PCT INTERNATIONAL PATENT > **ufs-033376**