

PUBLICATIONS – 2018

1. **Mokolokolo, Pennie P., Frei, A., Tsosane, M.S., Kama, D.V., Schutte-Smith, M., Brink, A., Visser, H.G., Meola, G., Alberto, R. and Roodt, A.** 2018. Nuclearity manipulation in Schiff-base *fac*-tricarbonyl complexes of Mn(I) and Re(I). *Inorganica Chimica Acta* **471**: 249-256. [ufs-031376](#)
2. **von Eschwege, K.G. and Conradie, J.** 2018. Iron phenanthrolines: A density functional theory study. *Inorganica Chimica Acta* **471**: 391-396. [ufs-031404](#)
3. **Mngomezulu, M.E., Luyt, A.S., Chapple, S.A. and John, M.H.** 2018. Poly(lactic acid)-starch/Expandable Graphite (PLA-starch/EG) Flame Retardant Composites. *Journal of Renew Materials* **6**:1 26-37. [ufs-031407](#)
4. **Mokhena, T.C., Jacobs, N.V. and Luyt, A.S.** 2018. Nanofibrous alginate membrane coated with cellulose nanowhiskers for water purification. *Cellulose* **25**: 417-427. [ufs-031411](#)
5. **Jacobs, F.J.F., Venter, G.J.S. and Brink A.** 2018. Crystal structure of benzoato- κ O-bis(1,3,5-triaza-7-phosphaadamantane- κ P)silver(I) monohydrate $C_{19}H_{31}AgN_6O_3P_2$. *Zeitschrift fur Kristallographie: New Crystal Structures* **233(2)**: 311-313. [ufs-031420](#)
6. **Venter, G.J.S.** 2018. A magnetic spin transfer NMR study of tertiary phosphine exchange in rhodium(I) complexes. *Journal of Organometallic Chemistry* **866**: 200-205. [ufs-031423](#)
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8. **Kuhn, A. and Conradie, J.** 2018. Orbital control over the metal vs ligand reduction in a series of neutral and cationic bis(cyclopentadienyl) Ti(IV) complexes. *New Journal of Chemistry* **42**: 662. [ufs-031431](#)
9. **Landman, M., Jansen van Rensburg, A., van Rooyen, P.H., Conradie, M.M. and Conradie, J.** 2018. Triphenylstibine-substituted Fischer carbene complexes of tungsten(0): synthesis, structure, DFT and electrochemistry. *New Journal of Chemistry* **42**: 7301. [ufs-031450](#)
10. **Malloum, A., Fifen, J.J. and Conradie, J.** 2018. Structures and Spectroscopy of the Ammonia Eicosamer, $(NH_3)_{n=20}$. *Journal of Chemical Physics* **149**: 024304-1 – 024304-8. [ufs-031461](#)
11. **Conradie, J., Conradie, M.M., Tawfiq, K.M., Al-Jeboori, M.J., Coles, S.J., Wilson, C. and Potgieter, J.H.** 2018. Synthesis, characterization, experimental and theoretical structure of novel Dichloro(bis{2-{1-(4-methoxyphenyl)-1H-1,2,3-triazol-4-yl- κ N³}pyridine- κ N})metal(II) compounds, metal = Mn, Co and Ni. *Journal of Molecular Structure* **1161**: 89-99. [ufs-031463](#)

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14. **Malan, F.P., Singleton, E., Conradie, J. and Landman, M.** 2018. Electrochemistry of a series of symmetric and asymmetric CpNiBr(NHC) complexes: Probing the electrochemical environment due to push-pull effects. *Journal of Electroanalytical Chemistry* **814**: 66-76. [ufs-031471](#)
15. **Mair, C.E., Grienke, U., Wilhelm, A., Urban, E., Zehl, M., Schmidtke, M. and Rollinger, J.M.** 2018. Anti-Influenza Triterpene Saponins from the Bark of *Burkea Africana*. *Journal of Natural Products* **81**: 515-523. [ufs-031478](#)
16. **Noreljaleel, A.E.M., Wilhelm, A., Bonnet, S.L. and van der Westhuizen, J.H.** 2018. Synthesis and Bioactivity of Reduced Chalcones Containing Sulfonamide Side Chains. *Journal of Natural Products* **81**: 41-48. [ufs-031487](#)
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20. **Buitendach, B.H., Erasmus, E., Niemandtsverdriet, J.W., and Swarts, J.C.,** 2018. Can Electrochemical Measurements Be Used To Predict X-ray Photoelectron Spectroscopic Data? The Case of Ferrocenyl- β -Diketonato Complexes of Manganese(III). *Transition Metal Chemistry* **43**: 409-420. [ufs-031582](#)
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27. **Dennis, C.R., Swarts, J.C. and Langner, E.H.G.** 2018. Nucleophilic ligand substitution in triply deprotonated tetrapeptide complexes of copper(II) and nickel(II) with 1,10-phenanthroline and 2,2-bipyridine. *Transition Metal Chemistry* **43**: 387-395. [ufs-031842](#)
28. **Adeniyi, A.A. and Conradie, J.** 2018. The stability, kinetic and inter-fragment electron communication of the tautomers of twelve selected β -diketone molecules: A computational study. *Journal of Molecular Graphics and Modelling* **85**: 25-39. [ufs-031909](#)
29. **Hill, T.N. and Roodt, A.** 2018. Solid-state and Computational Study of "Venus fly-trap" Geometric Parameters for 1,5-Cyclooctadiene in Pd^{II} and Pt^{II} β -Enaminonato Complexes. *Zeitschrift für anorganische und allgemeine Chemie* **644:14** 763-774. [ufs-031914](#)
30. **Frei, A., Mokolokolo, P.P., Bolliger, R., Braband, H., Tsosane, M.S., Brink, A., Roodt, A. and Alberto, R.** 2018. Self-Assembled Multinuclear Complexes Incorporating ^{99m}Tc. *Chemistry-A European Journal* **24:41** 10397-10402. [ufs-031916](#)
31. **Burianova, V.K., Mikherdov, A.S., Bolotin, D.S., Novikov, A.S., Mokolokolo, P.P., Roodt, A., Boyarskiy, V.P., Suslonov, V.V., Zhdanov, A.P., Zhizhin, K.Yu and Kuznetsov, N.T.** 2018. Electrophilicity of aliphatic nitrilium *closo*-decaborate clusters: Hyperconjugation provides an unexpected inverse reactivity order. *Journal of Organometallic Chemistry* **870**: 97-103. [ufs-031937](#)
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33. **Burianova, V.K., Bolotin, D.S., Mikherdov, A.S., Novikov, A.S., Mokolokolo, P. P. A. Roodt, A., Boyarskiy, V. P., Dar'in, D., Krasavin, M., Suslonov, V.V., Zhdanov, A.P., Zhizhind, K.Yu. and Kuznetsov, N.T.** 2018. Mechanism of generation of *closo*-decaborato amidrazones. Intramolecular non-covalent B-H \cdots π (Ph) interaction determines stabilization of the configuration around the amidrazone C=N bond. *New Journal of Chemistry* **42:11** 8693-8703. [ufs-031944](#)

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