

Africa-UK Partnership for the Computer-aided Development of Sustainable Catalysts

David Santos-Carballal^{a,b,*}                                                          <img alt="Scifind ID icon" data-bbox="1668 161 168

- 5 C.H. Botchway, R. Tia, E. Adei, N.Y. Dzade and N.H. de Leeuw, H-FER-catalyzed conversion of methanol to ethanol and dimethyl ether: a first-principles DFT study, *S. Afr. J. Chem.*, 2021, **74** (Special Edition), 30–35.
- 6 K. Meerholz, D. Santos-Carballal, U. Terranova, A. Falch, C.G.C.E. van Sittert and N.H. de Leeuw, Thermodynamics of the atomic distribution in Pt_3Pd_2 and Pt_2Pd_3 and their corresponding (111) surfaces, *S. Afr. J. Chem.*, 2021, **74** (Special Edition), 36–41.
- 7 M. Nyepetsia, F. Mbaiwa, O.A. Oyetunji, N.Y. Dzade and N.H. de Leeuw, The carbonate-catalyzed transesterification of sunflower oil for biodiesel production: *in situ* monitoring and Density Functional Theory calculations, *S. Afr. J. Chem.*, 2021, **74** (Special Edition), 42–49.
- 8 O.E. Olaoye, O. Oyetunji, B.C.E. Makhubela, A. Muyaneza, G. Kumar and J. Darkwa, Catalytic hydrogenation of sorbic acid using pyrazolyl palladium(II) and nickel(II) complexes as precatalysts, *S. Afr. J. Chem.*, 2021, **74** (Special Edition), 50–56.
- 9 M.J. Ungerer, D. Santos-Carballal, C.G.C.E. van Sittert and N.H. de Leeuw, Competitive adsorption of H_2O and SO_2 on catalytic platinum surfaces: a Density Functional Theory study, *S. Afr. J. Chem.*, 2021, **74** (Special Edition), 57–68.
- 10 M.A. Peck, D. Santos-Carballal, N.H. de Leeuw and M. Claeys, Density Functional Theory study of the adsorption of oxygen and hydrogen on 3d transition metal surfaces with varying magnetic ordering, *S. Afr. J. Chem.*, 2021, **74** (Special Edition), 69–72.