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V. Oison, L. Saadi, C. Lambert-Mauriat, and R. Hayn, "Mechanism of CO and O_3 sensing on WO_3 surfaces : First principle study," Sensors and Actuators B : Chemical, vol. 160, pp. 505–510, 2011.

C. Lambert-Mauriat, V. Oison, L. Saadi, and K. Aguir, "Ab initio study of oxygen point defects on tungsten trioxide surface," Surface Science, vol. 606, pp. 40–45, 2012.

Saadi, C. Lambert-Mauriat, V. Oison, H. Ouali, and R. Hayn, "Mechanism of NO_x sensing on WO_3 surface : first principle calculations," Applied Surface Science, vol. 293, pp. 76–79, 2014.

C. Lambert-Mauriat, V. Oison, L. Saadi, R. Hayn, and K. Aguir, "Propriétés électro- niques de la lacune d'oxygène – réactivité des molécules de O_3 et de CO sur WO_3," in GDR CoDFT 2011, (Obernai, France), 27-30 Juin 2011. Communication orale.

V. Oison, H. Ouali, C. Lambert-Mauriat, and M. Freyss, "Experimental and ab initio study of the O_3 detection at the CuO (111) surface," Surface Science, vol. 622, pp. 44– 50, 2014.

A. Labidi, H. Ouali, A. Bejaouia, T. Wood, C. Lambert-Mauriat, M. Maarefa, and K. Aguir, "Synthesis of pure Cu_2O thin layers controlled by in-situ conductivity mea- surements," Ceramics International, vol. 40, pp. 7851–7856, 2014.

H. Ouali, C. Lambert-Mauriat, L. Raymond, and A. Labidi, "Mechanism of O_3 sensing on Cu_2O(1 1 1) surface : First principle calculations," Applied Surface Science, vol. 351, pp. 840–845, 2015.

H. Ouali, V. Oison, A. Labidi, C. Lambert-Mauriat, and M. Maaref, "étude ab initio du mécanisme de détection de molécules en surface d'oxydes de cuivre CuO : ap- plication capteur de gaz," in GDR CoDFT 2013, (Nantes, France), 21-24 Mai 2013. Communication orale.