

REFERENCES

- Bocuzzi, F., Chiorino, A., Manzoli, M., Lu, P., Akita, T., Ichikawa, S., and Haruta, M. (2001) Au/TiO₂ Nanosized Samples: A Catalytic, TEM, and FTIR Study of the Effect of Calcination Temperature on the CO Oxidation. Journal of Catalysis, 202, 256–267.
- Calla, J.T., Davis, R.J. (2005) X-ray absorption spectroscopy and CO oxidation activity of Au/Al₂O₃ treated with NaCN. Catalysis Letters, 99, 21–26.
- Chang, L.H., Yeh, Y.L., and Chen, Y.W. (2008) Preferential oxidation of CO in hydrogen stream over nano-gold catalysts prepared by photodeposition method. International Journal of Hydrogen Energy, 33, 1965–1974.
- Daté, M., Imai, H., Tsubota, S., and Haruta, M. (2007) In situ FT-IR measurements under flow condition of the CO oxidation over supported gold nanoparticles. Catalysis Today, 122, 222–225.
- Deng, W., Carpenter, C., Yi, N., and Flytzani-Stephanopoulos, M. (2007). Comparison of the activity of Au/CeO₂ and Au/Fe₂O₃ catalysts for the CO oxidation and the water-gas shift reactions. Topics in Catalysis, 44, 199-208.
- Gardner, S.D., Hoflund, G.B., Schryer, D.R., Schryer, J., Upchurch, B.T., Kielin, E.J. (1991) Catalytic behavior of noble metal/reducible oxide materials for low-temperature carbon monoxide. 1. Comparison of catalyst performance. Langmuir 1991, 7, 2135–2139.
- Grunwaldt, J.D., Maciejewski, M., Becker, O.S., Fabrizioli, P., and Baiker, A. (1999) Comparative Study of Au/TiO₂ and Au/ZrO₂ Catalysts for Low-Temperature CO Oxidation. Journal of Catalysis, 186, 458–469.
- Haruta, M., Ueda, A., Tsubota, S., Kobayashi, T., Kageyama, H., Genet, M., Delmon, B. (1993) Low-temperature oxidation of CO over gold supported on TiO_x, α-Fe₂O₃, Co₃O₄. Journal catalyst, 144, 175–192.
- Hoflund, G.B., Gardner, S.D., Schryer, D.R., Upchurch, B.T., and Kielin, E.J. (1995) Au/MnO, catalytic performance characteristics for low-temperature carbon monoxide oxidation. Applied Catalysis B: Environmental, 6, 117–126.

- Jacobs, G., Ricote, S., Patterson, P.M., and Graham, U.M., Dozier, A., Khalid, S., Rhodus, E., Davis, B.H. (2005) Low temperature water-gas shift: Examining the efficiency of Au as a promoter for ceria-based catalysts prepared by CVD of a Au precursor. Applied Catalysis A: General, 292, 229–243.
- Venugopal, A., Scurrall, M.S. (2004) Low temperature reductive pretreatment of Au/Fe₂O₃ catalysts, TPR/TPO studies and behaviour in the water-gas shift reaction. Applied Catalysis A: General, 258, 241–249.
- Wang, H., Zhu, H., Qin, Z., Wang, G., Liang, H., and Wang, J. (2008) Preferential oxidation of CO in H₂ rich stream over Au/CeO₂-Co₃O₄ catalysts. Catalysis Communication, 9, 1487–1492.
- Luengnaruemitchai, A., Thoa, D.T.K., Osuwan, S., and Gulari, E. (2005) A Comparative Study of Au/MnO_x and Au/FeO_x catalysts for the catalytic oxidation of CO in hydrogen rich stream. International Journal of Hydrogen Energy, 30, 981–987.
- Ramesh, K., Chen, L., Chen, F., Liu, Y., Wang, Z., and Han, Y.F. (2008) Re-investigating the CO oxidation mechanism over unsupported MnO, Mn₂O₃ and MnO₂ catalysts. Catalysis Today, 131, 477–482.
- Rossignol, C., Arrii, S., Morfin, F., Piccolo, L., Caps, V., and Rousset, J.L. (2005) Selective oxidation of CO over model gold-based catalysts in the presence of H₂. Journal of Catalysis, 230, 476–483.
- Schubert, M.M., Venugopal, A., Kahlich, M.J., Plzak, V., and Behm R.J. (2004) Influence of H₂O and CO₂ on selective CO oxidation in H₂-rich gases over Au/ α -Fe₂O₃. Journal of Catalysis, 222, 32–40.
- Schumacher, B., Plzak, V., Kinne, M., and Behm, R.J. (2003). Highly active Au/TiO₂ catalysts for low-temperature CO oxidation: preparation, conditioning and stability. Catalysis Letters, 89, 109–114.
- Solsona, B.E., Garcia, T., Jones, C., Taylor, S.H., Carley, A.F., and Hutchings G. J. (2006) Supported gold catalysts for the total oxidation of alkanes and carbon monoxide. Applied Catalysis A: General, 312, 67–76.
- Souza, K.R., Lima, A.F., Sousa, F.F., Appel, L.G., (2008) Preparing Au/ZnO by precipitation-deposition technique. Applied Catalysis A: General, 340, 133–139.

- Tripathi, A.K., Kamble, V.S., and Gupta, N.M. (1999) Microcalorimetry, Adsorption, and Reaction Studies of CO, O₂, and CO+O₂ over Au/Fe₂O₃, Fe₂O₃, and Polycrystalline Gold Catalysts. Journal of Catalysis, 187, 332–342.
- Wang, G.Y., Lian, H.L., Zhang, W.X., Jiang, D.Z., and Tong, H.W. (2002) Stability and Deactivation of Au/Fe₂O₃ Catalysts for CO Oxidation at Ambient Temperature and Moisture. Kinetics and Catalysis, 43, No. 3, 433–442.
- Zhang, J., Fang, K., Zhang, K., Li, W., and Sun Y. (2009) Carbon dispersed iron-manganese catalyst for light olefin synthesis from CO hydrogenation. Korean J. Chem. Eng., 26(3), 890–894.

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