Supplementary Materials: The decisive Effect of Gold Particle Size on the Catalytic Activity in the Oxidation of 5-(Hydroxymethyl)furfural

Oliver Schade [1,2], Paolo Dolcet [1], Alexei Nefedov [3], Xiaohui Huang [4], Erisa Saraçi [2], Christof Wöll[3] and Jan-Dierk Grunwaldt [1,2,*]

[1] Institute for Chemical Technology and Polymer Chemistry, Karlsruhe Institute of Technology (KIT), D-76131 Karlsruhe, Germany; oliver.schade@kit.edu (O.R.S.); paolo.dolcet@kit.edu (P.D.)
[2] Institute of Catalysis Research and Technology, Karlsruhe Institute of Technology (KIT), D-76344 Eggenstein-Leopoldshafen, Germany; erisa.saraci@kit.edu (E.S.); grunwaldt@kit.edu (J.-D.G.)
[3] Institute of Functional Interfaces, Karlsruhe Institute of Technology (KIT), D-76344 Eggenstein-Leopoldshafen, Germany; alexei.nefedov@kit.edu (A.N.); christof.woell@kit.edu (C.W.)
[4] Institute of Nanotechnology, Karlsruhe Institute of Technology (KIT), D-76344 Eggenstein-Leopoldshafen, Germany; xiaohui.huang@partner.kit.edu (X.H.)
* Correspondence: grunwaldt@kit.edu; Tel.: +49-721-608-42120

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1. Catalyst characterization

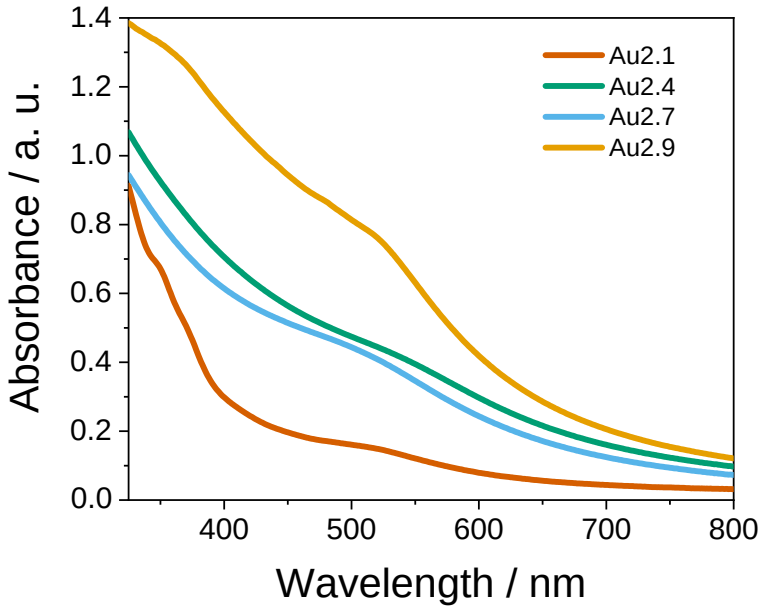

Figure S 1. UV-Vis spectra of the colloidal suspensions.

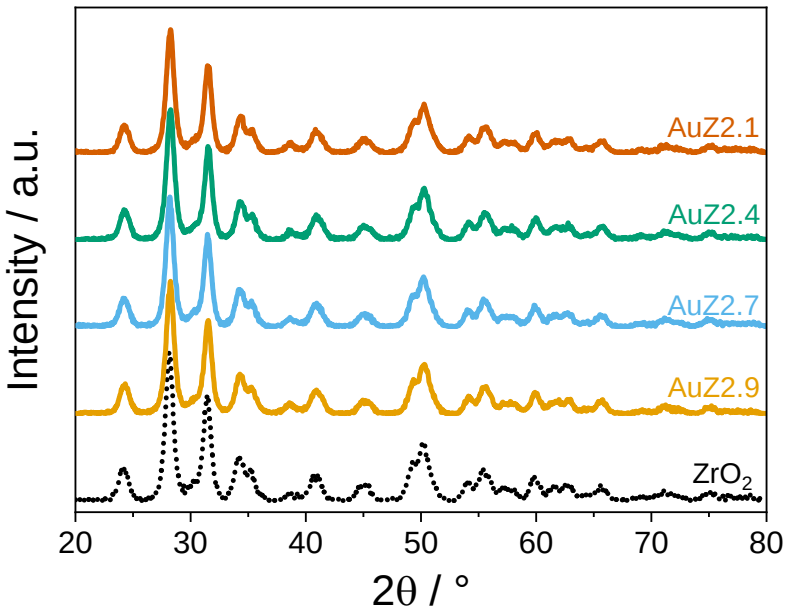

Figure S 2. XRD patterns of the supported as prepared catalysts and the pure ZrO_2 support material (dotted line).

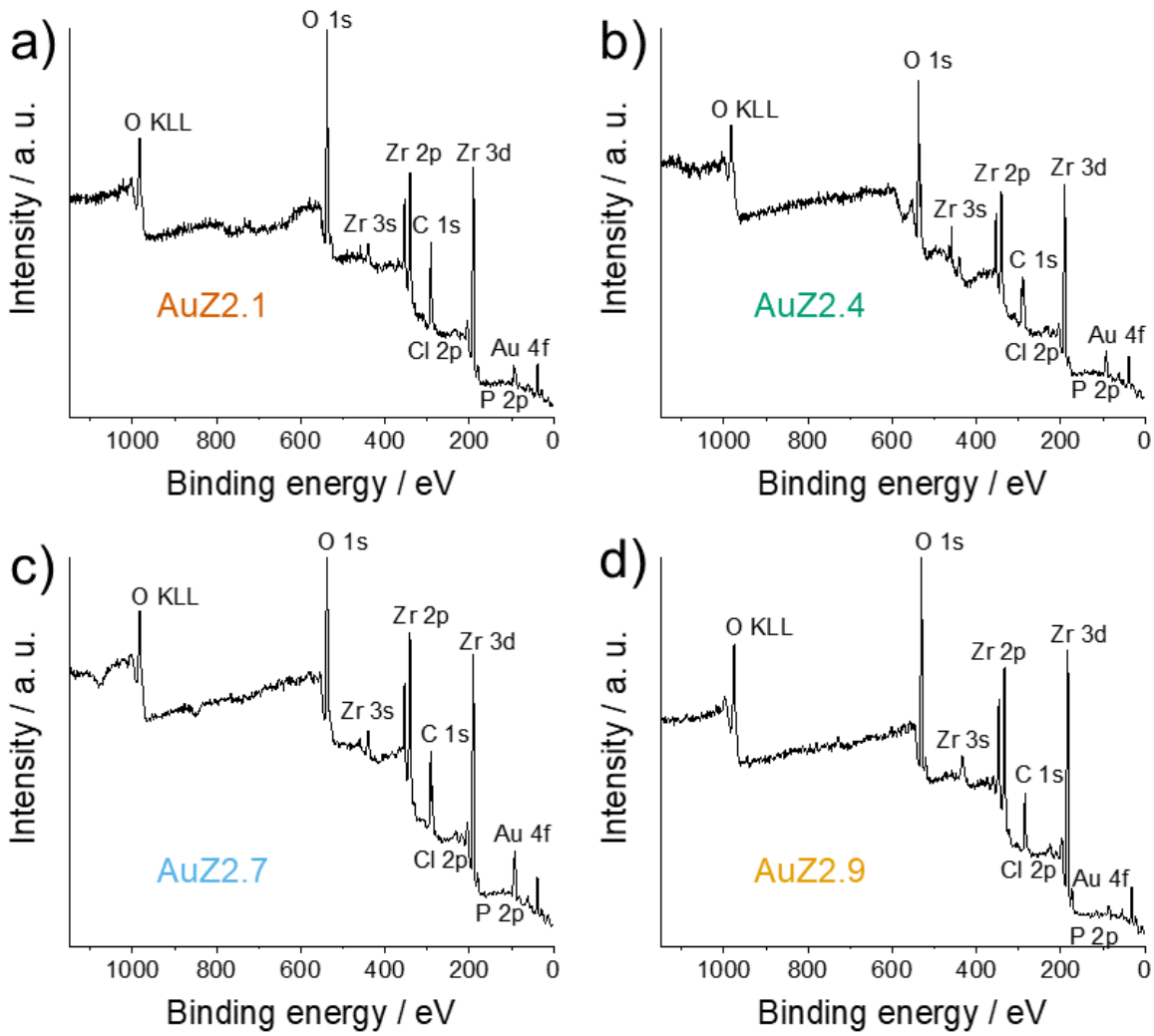

Figure S 3. XP spectra of the supported as prepared catalysts.

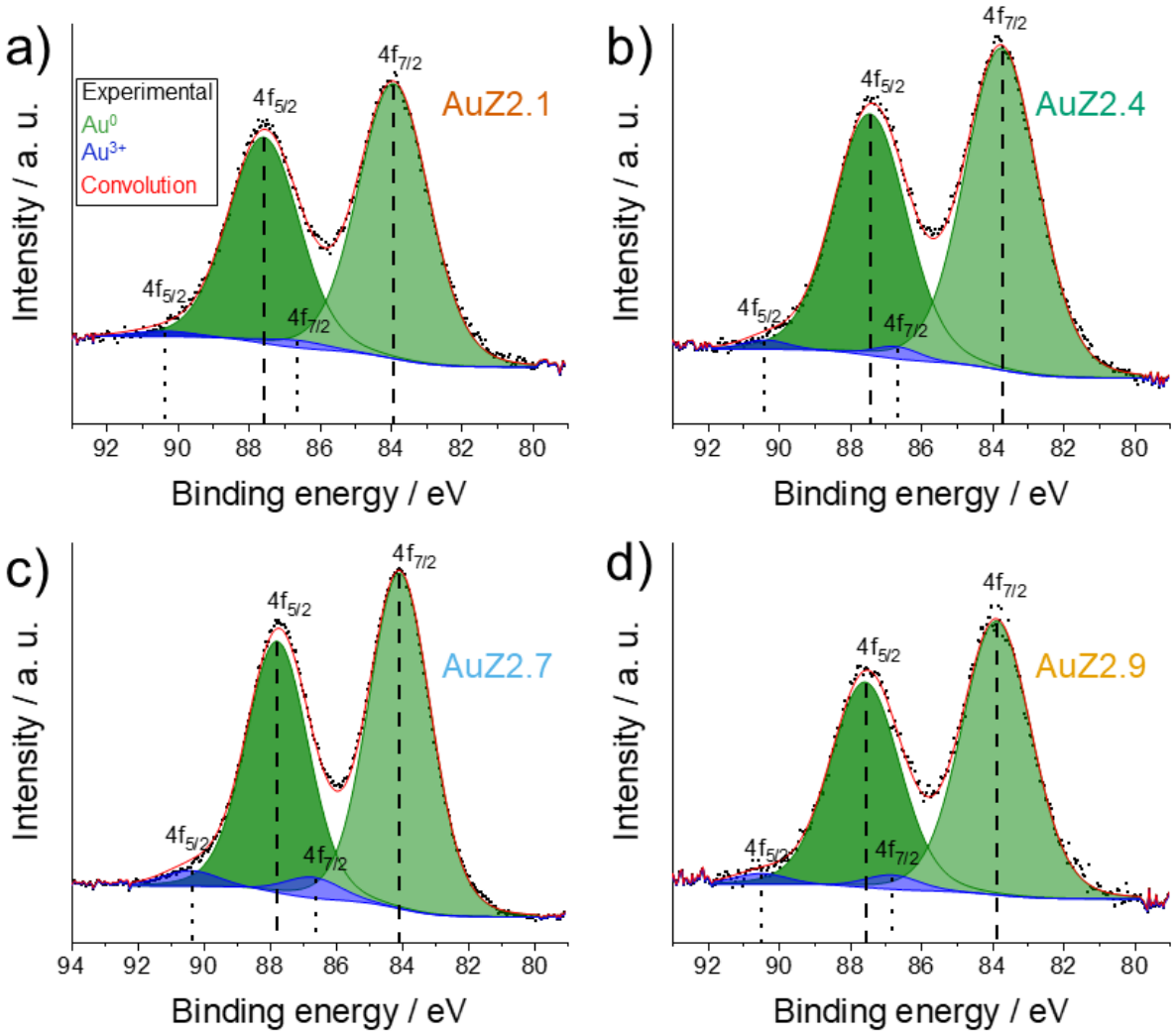

Figure S 4. Au 4f XP spectra of the supported (a) AuZ2.1, (b) AuZ2.4, (c) AuZ2.7 and (d) AuZ2.9 catalysts.

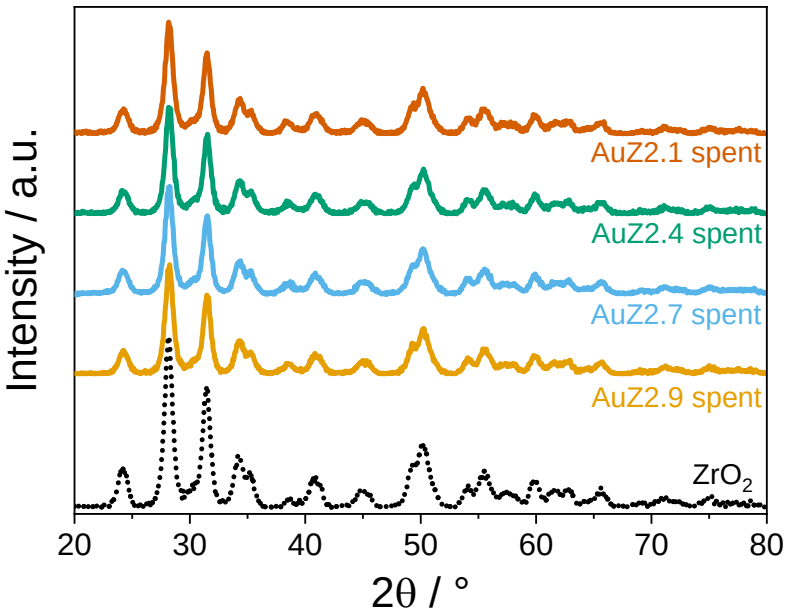

Figure S 5. XRD patterns of the spent catalysts after catalytic reactions, the pure ZrO_2 support material (dotted line) is given for comparison.