**Response to Reviewers**

Dear Editor,

Thank you so much for the valuablefeedback!

The following contents address what revisions have been made to my paper in the light of the feedbacks on“**Water glass derived catalyst for the synthesis of glycerol carbonate via the transesterification reaction between glycerol and dimethyl carbonate**”.

**•Table I: Change “Glycerol con. (%)” to “Glycerol conversion (%)”**

**My answer is:**

“TABLE I. Property comparison of the WG derived catalysts in the synthesis of GC.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Catalyst | Modulus of resultant WG | BET surface area (m2·g-1) | Basic strength | Total basicity (mmol g-1) | Glycerol conversion  (%)a | GC yield (%)a |
| WG-1.0  WG-1.5  WG-2.0  WG-2.5  WG-3.0 | 1.02  1.51  2.04  2.48  3.03 | 2.2  2.5  6.2  3.4  2.8 | 15.0<H\_<18.4  15.0< H\_<18.4  15.0< H\_<18.4  9.8< H\_<15.0  9.8< H\_<15.0 | 23.1  17.9  16.4  14.8  12.9 | 91.4  91.2  91.3  72.1  67.3 | 89.2  89.3  89.1  70.2  65.8 |

”(see Page 8, line 188)

**•Lines 191, 196 and 204: Change “Table 1” to “Table I”**

**My answer is:**

“Table I presents the BET, basicity, and the catalytic ability of the WG derived catalysts.” (see Page 8, line 191)

“As observed in Table I, WG-1.0, WG-1.5, and WG-2.0 displayed the high basic strength of 15.0<H\_<18.4.” (see Page 8, line 196)

“To compare the catalytic ability of the WG derived catalysts, these catalysts were employed in the transesterification reaction between glycerol and DMC, and the result is also shown in Table I.” (see Page 9, line 204)

**•Figs 4 and 5: Change “GLY Conversion” to “Glycerol concersion” and “GC Yield” to “GC yield”**

**My answer is:**

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Fig. 4. (**a**) Effect of catalyst amount on the transesterification of glycerol with DMC. (**b**). Effect of glycerol to DMC molar ratio on the transesterification of glycerol with DMC. (**c**). Effect of reaction temperature on the transesterification of glycerol with DMC. (**d**) Effect of reaction time on the transesterification of glycerol with DMC.

(see Page 9, line 216)



Fig. 5. Reusability of WG-2.0 in the transesterification of glycerol with DMC. Reaction conditions: glycerol: 0.05 mol (4.8 g), DMC: 0.2 mol (18.0 g), catalyst: 4 wt.% (0.9g), temperature: 348 K, time: 90 mins.

”(see Page 11, line 255)

**•line 275: Change “Table 2” to “Table II”**

**My answer is:**

“The results are presented in Table II.” (see Page 12, line 278)

All the best!

Kind Regards,

Dr. Song Wang