**Reply to the Comments of reviewer/response letter**

The manuscript has been revised as per advice of the reviewer. Here are responses to his comments.

Correction in manuscript are highlighted through light light green color: green color

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| **S. No** | **Reviewer # 1 comments** | **Author Reply** |
|  | **On page 1** | |
| 1 | line 14 Insert words “the new sensor” | done |
| 2 | Line 16 Insert words “it has a” and lower to higher concentration og Glucose | done |
| 3 | Line 17 Insert words “it is” and words “it shows” | inserted |
| 4 | Line 17 Insert comma”,” | done |
| 5 | Line 18 capatilized letter “P” of polyol | done |
|  | **On Page 2** | |
| 6 | Line 36, Replace word “death and disability with “disability and death” | done |
| 7 | Line 37, Replace word “of Diabetes with “with diabetes” | replaced |
| 8 | Line 42 remove word “Since” and capatilized letter E of Word “enzyme”. Also write word “they” in between “and” & “are” | done |
| 9 | Line 54, write “e.g.” instead of “like” | done |
| 10 | Line 55, add coma”,” , remove “Besides metal oxide nanomaterial” and write letter “s” with nanomaterial | done |
| 11 | Line 56, Write word “they have” after “electrocatalytic activities due to which it” | wrote |
| 12 | Line 57, remove extra coma “,” and capatalyzed letter “T” of word “To” | done |
|  | **On Page 3** | |
| 13 | Line 72, add coma “,” before word “glucose” | added |
| 14 | Line 73, formula of ethylene glycol is missing | Formula of ethylene glycol is added |
| 15 | Line 82, give KCl concentration | The concentration has been mentioned. We used saturated solution of KCl |
| 16 | Line 83, add coma “,” after word “reference” and after word “electrode” | added |
| 17 | Line 86, write “described” instead of “describe” and remove word “elsewhere”. Capitalized letter “b” of word “briefly” | done |
| 18 | Line 88, Replace word “adding together” with word “mixing” | Done |
| 19 | Line 89, give volume and concentration of TiO2 | 112mg of TiO2 was dispersed in 26.5 ml ethylene glycol. |
| 20 | Line 92, write word “to” after “let” | Done |
|  | **On page 4** | |
| 21 | Line 109, write word “which” after word “conditions” | wrote |
| 22 | Line 111, add coma “,” after Cu/TiO2, and remove word “of the” | done |
| 23 | Line 112, write word “be” before “spherical” | done |
| 24 | Line 113, write word “the” after “agglomeration was observed in” | done |
| 25 | Line 119, write words “and it” after “sample were examined by EDS” | done |
| 26 | Line 120, add coma “,” before “and” | done |
| 27 | Line 122, replace word “analysis” with “spectra” | replaced |
|  | **On page 5** | |
| 28 | Line 127. Add come”,” before “and 550 in XRD spectra” | added |
| 29 | Line 129, add letter “s” with word “indicate” | added |
| 30 | Line 129, leave out coma and add letter “s” with word “revert” | done |
|  | **On page 6** | |
| 31 | Line 140, Fig. 2. Replace word “spectra” with “spectrum” | replaced |
| 32 | Line 142, Fig. 3. Replaced word “analysis” with “spectrum” | replaced |
| 33 | Line 145, replace words “Glassy Carbon Electrode” with “GCE” | replaced |
| 34 | Line 147, replace words “glassy carbon electrode” with “GCE” and word “were” with “was”  Insert technique name “CV”  Remove word “any” and replace word “redox” with “peak” | Replaced  Technique name was also mentioned  done |
| 35 | Line 148, replace words “GC electrode” with “GCE”  Replace word “while” with “However”  Remove words “ a clear” | done |
| 36 | Line 150, add letter “s” with word “indicate” | done |
| 37 | Line 153, replace words “glassy carbon electrode” with “GCE” | done |
| 38 | Line 156, write word “be” after “glucose oxidation may” | done |
|  | **On page 7** | |
| 39 | Line 157, add letter “s” with word “assist” | added |
| 40 | Line 158, insert word “is” after “CuO2 layer”  Add letter “s” with word “promote” | inserted |
| 41 | Line 159, remove word “since” | removed |
| 42 | Line 169, write Word “CV” after “To check whether”  write Word “increase” after linearly. | wrote |
| 43 | Line 171-172, replace words “were also recorded” with “was also investigated” | replaced |
| 44 | Line 172, replace word “It is observed” with “ It was found”  Write letter “s” with word “increase” | Replaced  wrote |
| 45 | Line 173, replace word “high” with “more positive” and “were” with “was” | replaced |
| 46 | Line 174, remove word “this” and add “ing” with “indicate” | done |
| 47 | Line 175, remove words “is in diffusion limited” | removed |
| 48 | Line 176, add words “is diffusion controlled.” | added |
| 49 | Line 177, Fig-4, Replace words “Electro-oxidation” with “Cyclic voltammogram”  give exact composition of medium and scan rate | Replace and provided |
|  | **On page 8** | |
| 50 | Line 180, Fig-5, replace words “Peak Current (Ip) as a function of concentration” with “Cyclic voltammograms at various glucose concentration” | replaced |
| 51 | Line 181, Fig-5, mention scan rate value | provided |
| 52 | Line 185-186, replace word “reflect” with “. It confirms” | replaced |
| 53 | Line 186, write “controlled” instead of “control” | wrote |
| 54 | Line 190, replace words “GC electrode” with “GCE”  Remove “and time” | Replaced and removed |
| 55 | Line 192-193, remove words “at this potential” | removed |
| 56 | Line 196, replace word “is” with was | replaced |
| 57 | Line 197, include letter “s” with increase | included |
|  | **On page 9** | |
| 58 | Line 198, remove brackets “(“ “)” | removed |
| 59 | Line 199, removed brackets”(“ “)” and add word “respectively” | done |
| 60 | Line 200, standard deviation of what?      Line 200, Slope of what? | Corrected it was “standard deviation “s” of replicate of amperometric measurement”    Corrected as  Slope of ip vs [Glucose } plot |
| 61 | Line 201, remove words “result such as” & add coma “,” after detection limit. | Removed and coma was added |
| 62 | Line 202, remove coma “,” | removed |
| 63 | Line 202, replace “As from table 1,” with words “It can be seen that” | replaced |
| 64 | Line 203, replace word “catalyst” with “material” & add coma “,” after detection limit | Replaced & added |
| 65 | Line 204, remove letter “e” & add letters “ing’ with word “improve” | Remove &added |
| 66 | Line 210, Fig-6: The caption must be changed. These are CV at different conditions and the dependence of Ip on the square root of the scan rate must be inserted | The caption was corrected as “Effect of scan rate on the the cyclic voltammogram on Ni-Cu/TiO2 modified GCE.” |
| 67 | Line 213, Table-1: sensitivity dimension is missing | Added as “(µA mM-1 cm-2)” |
| 68 | Line 213, Table-1: lower end of the range should be given | Lower end of range was provided as “ 0.1mM -6mM” |
|  | **On page 10** | |
| 69 | Line 216, Fig-7, Caption must be changed/ These are amperograms at certain conditions. Please. look at similar papers | Caption of Fig-7 were change as “Chronoampergram recorded for glucose oxidation in 0.1 M NaOH solution on CuNi/TiO2 modified GCE for optimization of point potential for further amperometric measurements” |
| 70 | Line 221, Fig-8, Explain what numbers means | A sentence “Current increases upon increasing glucose concentrations” was added to explain numbers |
| 71 | Line 224, replaced word “oxidized” with “monitored” | replaced |
| 72 | Line 225, add coma “,” after “acetaminophen (AP)” | added |
| 73 | Line 226, write letter “c” of word “Chronoamperometry” in lower case.  Write letters “ed” with word “mention” & remove “that” | done |
|  | **On page 11** | |
| 74 | Line 228, add coma “,” before and and full stop “.” After “AP (0.1mM)” | done |
| 75 | Line 231, replace word “study” with “studied” | done |
| 76 | Line 232, replace word “interference” with “interfering” | replaced |
| 78 | Line 236, replace word “were” with “was” & also word “oxidation” with “determination” | replaced |
| 79 | Line 238, Insert space between “40mL” | inserted |
| 80 | Line 240, add letters “er” with “high” | added |
| 81 | Line 240, remove word “however,” | removed |
| 82 | Line 241, remove words “response in current as a function of concentration” | removed |
| 83 | Line 245, Table-2: table of this kind should contain measured concentration, added concentration and found concentration after addition, which is not the case. It must be rewritten | Table was written. Column for “added concentration” was also added. |
|  | **On page 12** | |
| 84 | Line 248, Fig-9, replace words “catalytic activity” with “response” | replaced |
| 85 | Line 249, Fig -9, correct spelling of “the” | corrected |
| 86 | Line 249, Fig-9, concentrations of added compounds must be given | Concentration was provided in line 249. |
| 87 | Line 252, replace word “is” with “can be” | replaced |
| 88 | Line 254, give the lower end as well | Lower end were provided |
| 89 | Line 258, replace word “loss” with “decrease” | replaced |
| 90 | Line 259, replace word “reveal” with “confirm” | replaced |