COVER LETTER

To: Dr Snežana Gojković

Editor,

Journal of the Serbian Chemical Society

Dear Editor,

I am sending revised manuscript, which title is **“Electrochemical study of novel composite electrodes based on glassy carbon bulk-modified with Pt and MoO2 nanoparticles supported onto multi-walled carbon nanotubes“**.

The cover letter contains comments of authors on the questions of reviewer.

**1) The last paragraph of the Introduction, page 3:**

**„Nanoparticles/carbon matrix/electrolyte solution form three phases
contacts which are responsible for specific electrochemical behaviour of
electrodes. On the one side, there are kinetics limitations related to
electron transfer hindrances during redox proces at electrodes. On the other
side, accumulation af charge and electrosorption is responsible for high
capacitance.“**

**a) The quoted discussion related to the results of this work should be
presented in the Results and Discussion section, not in the Introduction.**

The quoted text has been removed to the Results and Discussion section.

**b) Please clearly state in the last paragraph of the Introduction that the
MWCNTs modified with MoO2 and Pt nanoparticles were used in this study.**

It has been corrected.

**c) Instead of “proces” should be “process”.**

It has been corrected.

**2) Experimental, Composite electrode preparation, page 4:**

**„Small amount of residual oxygen, as well as oxygen from functional groups
in resin during carbonization step could produce specific structure and
chemical composition of final material. MWCNTs provide mechanical stability
of electrode and contribute to electric conductivity, while Mo species and
Pt enhances electrochemical characteristics of materials. Pt and chemical
species of generated during carbonization of resin containing MoO2 can be
efficient electrocatalysts for water decomposition. The chemical species
formed during carbonization of resin containing MoO2 are or carbides or
non-stoichiometric oxides of Mo or even elemental Mo.  All these species are
known for their good electrocatalytic performances.“**

**The quoted text does not belong to the Experimental section. Please remove
it to the Results and Discussion section (and adjust it if necessary).**

The quoted text has been adjusted and removed to the Results and Discussion section.

**3) At least part of your response to my previous Comment #4a should be
included in the manuscript. For instance, please state in the Results and
Discussion section that the porosity and specific textural characteristics
of MoO2-MWCNT-GC and Pt-MWCNT-GC were most likely responsible for their
improved charge storage and areal capacitance as compared to commercial GC.**

The author`s response has been added in the manuscript, more precisely in the Results and Discussion section.

**4) Supplementary Material, page 1:**

**Instead of “as well 6 as M NaOH” should be “as well as 6 M NaOH”.**

It has been corrected.

**5) Fig. S-2a:**

**The cyclic voltammogram recorded on the GCE at a sweep rate of 50 mV s–1
is missing. Please provide it in the figure.**

It has been corrected.

**6) Fig. S-2c:**

**The color of the cyclic voltammogram recorded at a sweep rate of 10 mV s–1
and its color code in the legend of the figure are not same. Please
harmonize.**

It has been corrected.

**7) Caption of Fig. S-2:**

**It is stated in the caption of Fig. S-2 that the cyclic voltammograms were
recorded on GCE, MoO2-MWCNT GC and Pt-MWCNT GC at the sweep rates of 0.01,
0.025, 0.05, 0.1, 0.15, 0.2 and 0.25 V s–1. However, Figs. 5 and S-2 show
that the cyclic voltammetry measurements were actually performed at the
following sweep rates: 5, 10, 20, 50 and 100 mV s–1. Please revise the
information given in the caption.**

It has been corrected.

**8) Page 11, line 6:**

**Instead of “qausi-reversible” should be “quasi-reversible”.**

It has been corrected.

Sincerely,

Jelena Čović,

Ph. D. Student

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