Date: 31-01-2020

To

The editor

Journal of the Serbian Chemical Society

**Sub:** Resubmission of manuscript.

Dear sir

Thank you for considering for evaluation of manuscript entitled “**PEG mediated synthesis of 6-pyrazinyl- / fused pyrazinylquinazolin-4(3*H*)-ones using Castro-Stephen coupling, oxidation and cyclocondensation reactions”**. Thank you for your valuable suggestions. As suggested, the manuscript is edited and the modifications are listed below sequentially for your kind perusal. Hence, we request you to consider for peer reviewing process, hoping this manuscript will find its place for publication as an article in Journal of the Serbian Chemical Society.

**Response to Reviewers Comments**

**Comment-1.** Scheme 1. It should start from compound 4, since synthetic procedures and characterisation of preceding compounds is not given.

**Replay:** Scheme 1 is modified as per your suggestion and started from compound 4.

**Comment-2.** Scheme 2. This is mechanism for alkyne oxidation to 1,2-dicarbonyl compounds and represent common knowledge. Scheme should be deleted from manuscript and corresponding discussion.

**Replay:** Corresponding discussion and Scheme 2 deleted from the manuscript.

**Comment-3**. HRMS data of derivatives **5** and **6** is not properly written.

**Replay**: The HRMS data included in the manuscript for compounds **2** (5) and **3** (6) is matching with supplementary file (soft copies of HRMS).

For compound **2**: ESI-HRMS: [M+H]+ calculated for chemical formula C23H17N2O : *m/z* 337.1341; found at *m/z* 337.1327.

For compound **3**: ESI-HRMS: [M+H]+ calculated for chemical formula: C23H17N2O3: *m/z* 369.1239; found at *m/z* 369.1235.

**Comment-4**. Synthesis of derivative **10** is not possible without additional oxidation reaction. What is oxidizing agent in the reaction for formation of compound **10**? Simple explanation like air oxidation will not be accepted without good discussion, since under very similar reaction conditions described in J. Chem. Sci., 2011, 123(4), 477–483, only product of condensation was obtained. Authors should consider performing the same reaction but under inert atmosphere conditions (including deaeration of the solvents) and check the outcome of reaction. In addition, provide NMR and HRMS spectra (see below), please!

**Replay**: For the synthesis of compound **7** (**10**), we adopted similar conditions described in *Journal of Heterocyclic Chemistry* **2013**, *50*, 293 in which oxidative condensation occurred. Currently we don’t have starting materials and funding to perform the same reaction under inert atmosphere conditions. But compound **7** (**10**) was confirmed by NMR, HRMS and IR data and soft copies are included in the supplementary file.

**Comment-5**. Copies of NMR spectra (1H and 13C) for all new compounds (**8**, **10** & **12a-f**)
should be provided as supplementary data. Use good practice to magnify parts of spectra with signals important for structure determination.

**Replay:** Soft copies of NMR spectra (1H and 13C) for all new compounds are provided as supplementary data with good practice.

Yours truly

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