To: Editorial Board of *Journal of the Serbian Chemical Society*

#### Dear Editor-in-Chief, Dr Branislav Nikolić

Please find enclosed the manuscript:

ANN prediction of decolourisation efficiency of organic dyes in wastewater by plasma needle

from authors:

Tatjana Mitrović, Mirjana Ristić, Aleksandra Perić-Grujić and Saša Lazović

for Your review and possible publication in the *Journal of the Serbian Chemical Society*.

Our manuscript is dealing with an important problem of textile industry wastewater treatment by using advanced oxidation process – gas plasma treatment by low power atmospheric pressure plasma (a novel plasma needle configuration) for decolourisation of RO 16, RB 19 and DR 28 as dyes pollutants. The potential prediction of oxidation effect with ANN application is also investigated.

We have developed a low power atmospheric pressure plasma source of only a few Watts, which can develop great oxidation power and achieve almost total decolourisation effect of the polluted sample. We find that plasma needle is very effective in removing organic pollutants from water, manifesting influential oxidizing properties. Even more, we used the ANN as potential prediction model and proved very good agreement between experimental and predicted results.

The manuscript presents our original experimental results and it is not submitted or presented elsewhere.

We suggest following reviewers:

1. Dr Davor Antanasijević, e-mail:dantanasijevic@tmf.bg.ac.rs

2. Prof. dr Luca Lozzi, e-mail: luca.lozzi@univaq.it

3. Dr Ita Junkar, e-mail: ita.junkar@ijs.si

We hope that You will find our manuscript interesting for publication in *Journal of the Serbian Chemical Society*

Sincerely Yours,

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