Dated: 18 January 2017

To,

The Editor

Journal of the Serbian Chemical Society

Dear Sir,

We are enclosing herewith an original article entitled “**Effect of nano- and micro-alumina fillers on some properties of poly(methyl methacrylate) denture base composites**” to be considered for publication in **“*Journal of the Serbian Chemical Society*".** This work has not been published or presented before.

We wish to confirm that there are no known conflicts of interest associated with this publication and there has been no significant financial support for this work that could have influenced its outcome.

This original article discusses the effects of two different particle scales (i. e., nano and micro) of Al2O3 fillers on fracture toughness, flexural properties, water absorption and solubility of poly(methyl methacrylate) (PMMA) denture base. We try to underline the key findings of this article below.

* We have chemically treated the Al2O3 filler surface with silane coupling agent (γ-MPS).
* The highest value of fracture toughness (2.02 MPa·m1/2) achieved with addition of 0.5 wt% nano-Al2O3 to PMMA which was an increase of 39%.
* The flexural strength of PMMA denture base decreased with addition of nano- and micro-Al2O3 fillers.
* Water absorption and water solubility of nano- and microcomposites, were slight higher than pure PMMA.
* Al2O3 nanoparticles could improve the mechanical properties of PMMA denture base at low concentration.

For the findings mentioned above we believe that the presented original article contribution will be a valuable addition to the **“*Journal of the Serbian Chemical Society*".**

We therefore think that, this work will be of interest to the readership of your respectable journal.

Thank you for your consideration, and I am looking forward to hear from you.

Regards

Fathie Kundie

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PhD Student

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