**[Arial 15, bold] Carbonization of Macroporous poly(Dicyclopentadiene)-foams**

[Arial 12, underline the presenting author] Sebastijan Kovačič.a Katharina Gruber,b Stefan Koller,b Christian Slugovcc,\*

*[Arila 12, iltalics] a National Institute of Chemistry, Laboratory for Polymer Chemistry and Technology, Hajdrihova 19, 1000 Ljubljana, Slovenia*

*b Varta Micro Innovation GmbH, Stremayrgasse 9, 8010 Graz, Austria*

*c Graz University of Technology, Institute of Chemistry and Technology of Materials, NAWI Graz, Stremayrgasse 9, 8010 Graz, Austria; e-mail: slugovc@tugraz.at*

[Times New Roman, 13] High internal phase templating of surfactant stabilized dicyclopentadiene-water mixtures and subsequent curing via Ring-opening Metathesis Polymerization yields throughout opened macroporous poly(dicyclopentadiene) foams1 which, upon oxidation, can be pyrolysed yielding macroporous carbon foams of conductivities of up to 2800Sm-1.2 When the pyrolysis is conducted in the presence of carbon dioxide, micro- and mesoporosities are additionally created leading to increased specific surface areas of up to 1100 m2g-1. Similarly, Fe3C/C-foams can be prepared starting from macroporous poly(dicyclopentadiene) γFe2O3/Fe3O4 nanocomposite foams.3



*[Times new Roman, 12, italics] Schematic way of preparing macroporous carbon from dicyclopentadiene*

**References:** [Arilal, 11]

1 a) Kovacic, S.; Krajnc, P.; Slugovc, C. *Chem. Commun.* **2010**, *46*, 7504; b) Kovačič, S.; Jeřabek, K.; Krajnc, P.; Slugovc, C. *Polym. Chem.* **2012**, *3*, 325; c) Kovačič, S.; Matsko, N. B.; Jeřabek, K.; Krajnc, P.; Slugovc, C. *J. Mater. Chem. A* **2013**, *1*, 487; d) Kovačič, S.; Preishuber-Pflügl, F.; Slugovc, C. *Macromol. Mater. Eng.* **2014**, *299*, 843.

2 Kovačič, S.; Koller, S.; Fuchsbichler, B. ; Scharfegger, M. ; Slugovc, C.WO 2013 178371 A1

3 Kovačič, S.; Matsko, N. B.; Ferk, G.; Slugovc, C. *J. Mater. Chem. A.* **2013**, *1*, 7971.