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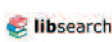
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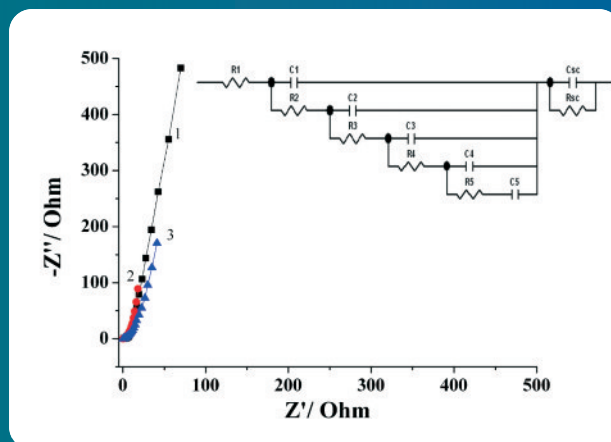
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The research paper made by B. Ya. Venhryn, I.I. Grygorchak, Z.A. Stotsko, B.P. Bakhmatyuk, S.I. Mudry, Yu.O. Kulyk on "Effect of ultrasonic treatment of activated carbon on capacitive and pseudocapacitive energy storage in electrochemical supercapacitors" on a **page 59** shows the use of ultrasonic radiation for improving the properties of activated carbon. Increase of density of states at Fermi level was the main factor, responsible for working characteristics of electrochemical supercapacitors. Working parameters of supercapacitors on the base of activated carbon have been studied by means of precisional porometry, small angle X-ray scattering, cyclic voltammetry, electrochemical impedance spectroscopy and computer simulation methods. The possibility to effect the interface between activated carbon and electrolyte by means of ultrasonic treatment in cavitation and noncavitation regimes is proved. It is shown that ultrasonic treatment in noncavitation regimes causes the significant increase of density of states at Fermi level that results in better farad-volt dependences. Modification of electric double layer by means in ultrasonic treatment, proposed in this work, could be regarded as an effective way to obtain the advanced electrode materials in devices of energy generation and storage. This work is important for physics, materials science and chemistry because it is related with new possibilities to change the mobility of charge carried in electric double layer by means of ultrasonic irradiation.



## Dear Readers,

On 2 September 2013 the Association of Computational Materials Science and Surface Engineering changed its seat and began its activity without the patronage of the Silesian University of Technology in Gliwice, Poland. On the cover there is still holidays mood and Italy. Siena is a city in Tuscany, Italy, the capital of the province of Siena. The beautiful historic centre of Siena has been declared by UNESCO a World Heritage Site. The shell-shaped Piazza del Campo, the town square, which houses the Palazzo Pubblico and the Torre del Mangia, is one of the biggest architectural treasure of Siena. The Siena Cathedral Church, as one of the great examples of Italian Romanesque-Gothic architecture begun in the 12<sup>th</sup> century, which main facade was completed in 1380. The next church shown on the cover is Basilica dell'Osservanza on the outskirts of Siena. The Accademia Musicale Chigiana, Siena's conservatory of music is located in the notable Gothic Palazzo Chigi on Via di Città. As usual we hand over a few next interesting scientific papers and we wish a nice reading.

Gliwice, in September 2013

Prof. Leszek A. Dobrzanski M Dr hc  
Editor-in-Chief of the JAMME  
President of the WAMME  
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