

International Conference on  
**MATERIALS RESEARCH AND DEVELOPMENT**

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International Conference on  
**CHEMISTRY AND APPLIED RESEARCH**

October 29-30,2018  
Prague, Czech Republic

**On the importance of producing small impedance particles with prescribed boundary impedance**

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**T**he problem of practical preparing small impedance particles with a prescribed boundary impedance is formulated and its importance in physics and technology is emphasized. It is shown that if this problem is solved then

one can easily prepare materials with a desired refraction coefficient, in particular, meta-materials. One can also prepare materials with a desired radiation pattern.

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