



Is it time for using wood or wood based materials for electromagnetic radiation shielding?

Levent Yavaş^{1,*}, Ahmet Ali Var²

¹ Süleyman Demirel University Keçiborlu MYO, Isparta, Turkey

² Suleyman Demirel University, Faculty of Forestry, Forest Industrial Engineering, Isparta, Turkey

* Corresponding author: leventyavas@gmail.com

Abstract: The aim of this paper is to summarize past studies of improving electromagnetic radiation shielding of wood or wood based materials. Wood is a porous material and has almost no effect to electromagnetic radiation yet this property could be improved. In this paper, using an extra layer, coating or impregnating techniques are considered. Studies mentioned in historical order. Results will be given as dB decrease and/or conductivity in respective frequencies. Improving the properties of wood or wood based materials will be beneficial to wood industry but there are very few studies in this interdisciplinary subject.

Keywords: Wood, Wood based, Electromagnetic, Shielding