

Surface functionalization of face masks with cold plasma and its effect in anchoring polyphenols extracted from agri-food

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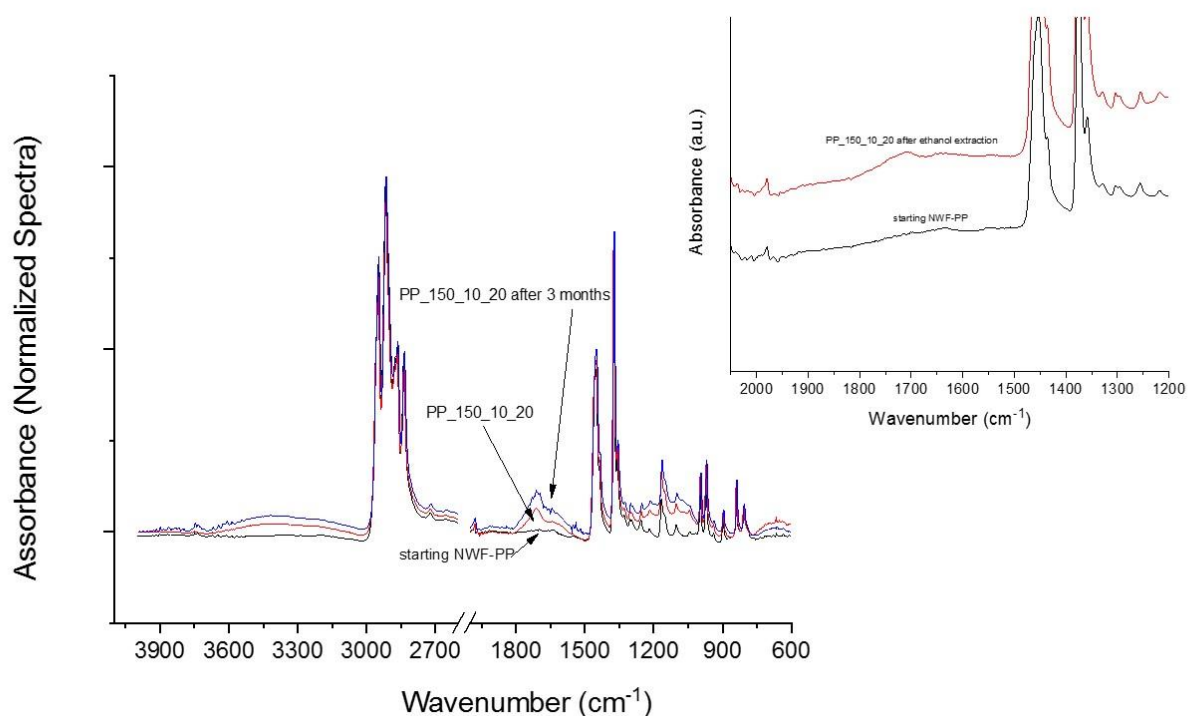


Figure S1. Normalized FTIR-ATR spectra of NWF-PP, PP_{150_10_20} sample and PP_{150_10_20} sample after 3 months. Inset: normalized FTIR-ATR spectra of NWF-PP and PP_{150_10_20} sample after ethanol washing.

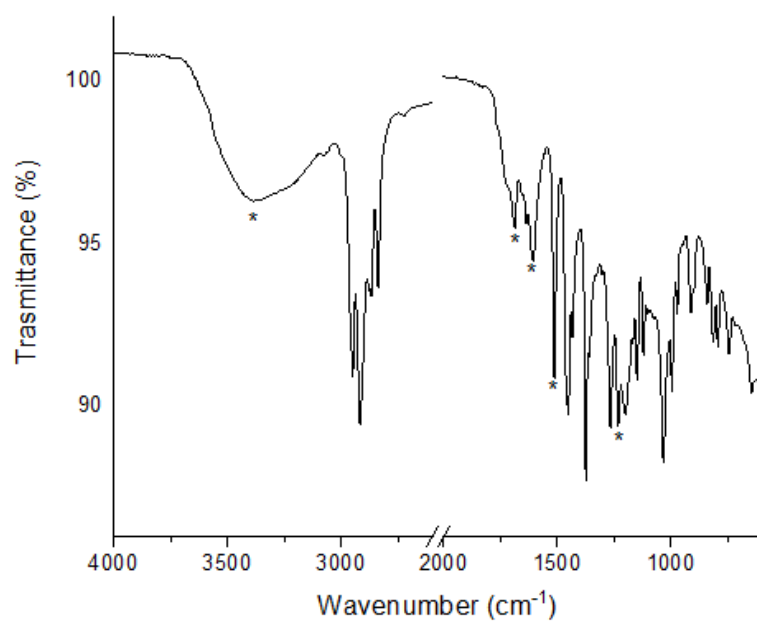


Figure S2: FTIR-ATR spectrum of sample PP_150_10_20 after dipping in the cloves extract; stars highlighted the main absorption bands of polyphenols

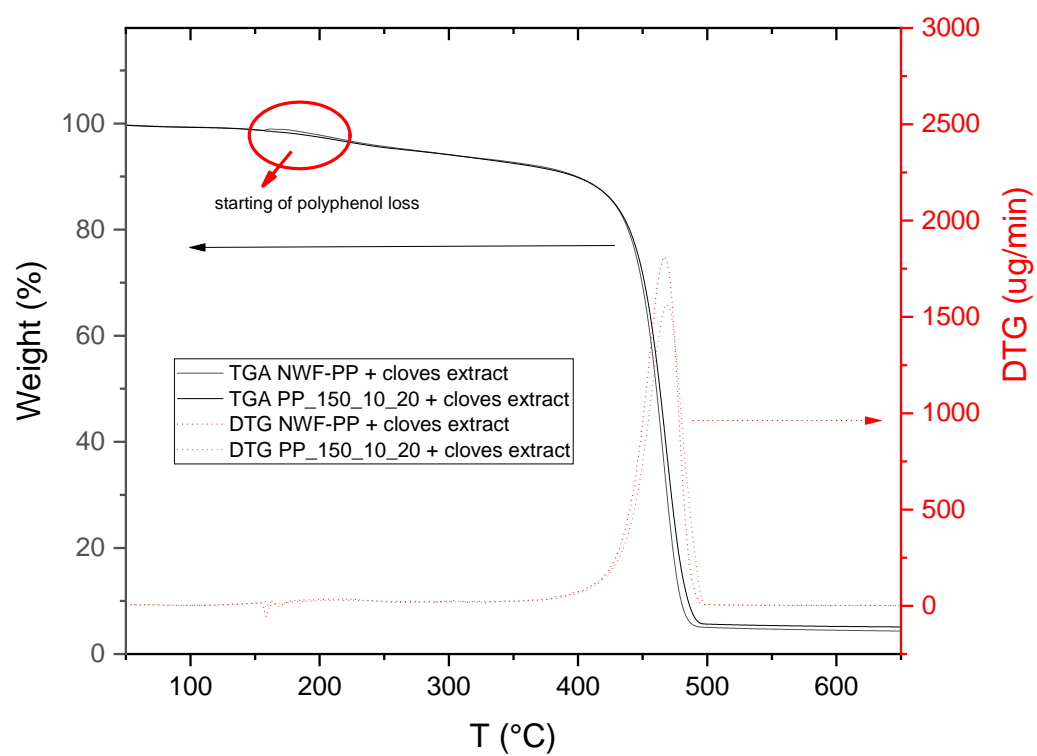


Figure S3: TGA and DTG curves of samples blank (NWF-PP) and PP_150_10_20 treated with cloves extract

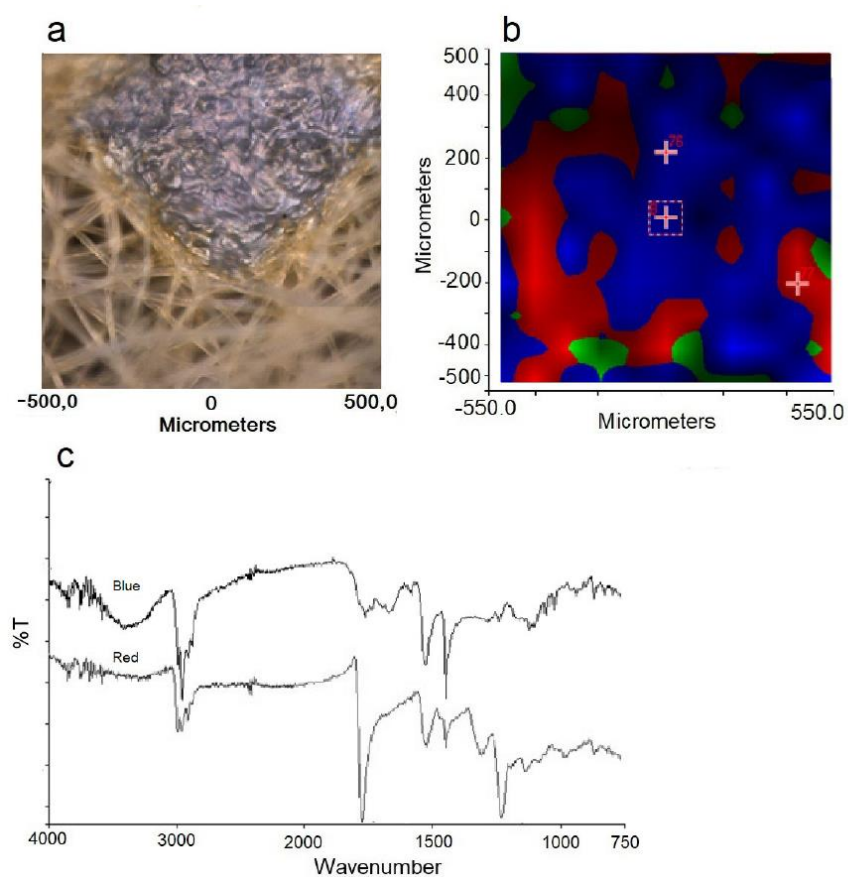


Figure S4. (a) Optical image of analysed portion of sample PP_150_10_20 treated with clove buds extract and its mapping (b); (c) FTIR spectra collected in the green, red and blue zones evidenced in the mapped imaging (b).

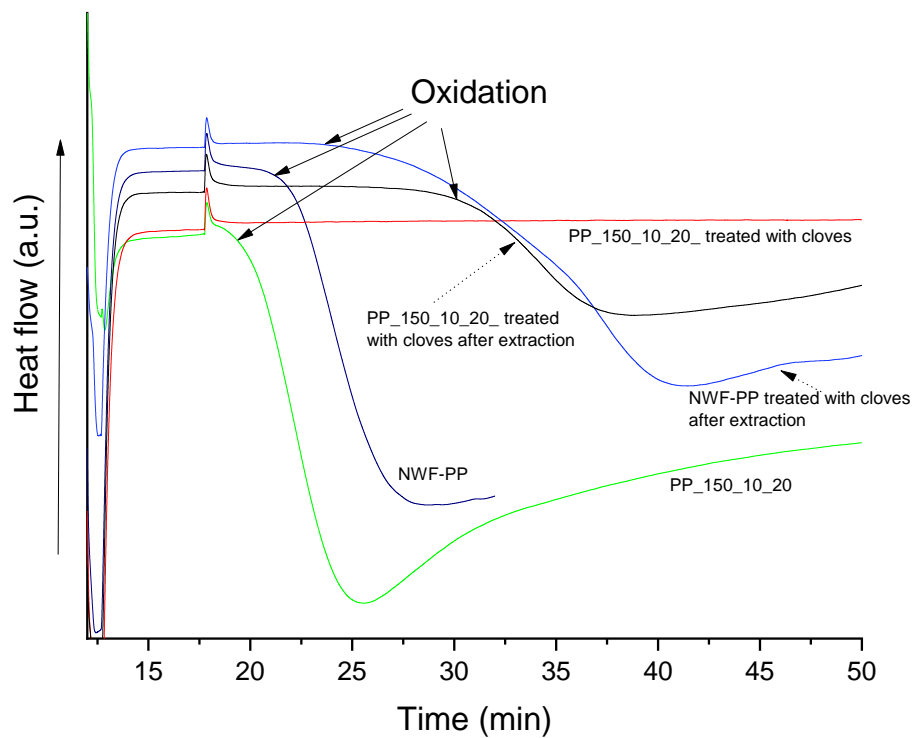


Figure S5. OIT curves of pristine NWF-PP, PP_150_10_20, PP_150_10_20_cloves, NWF-PP treated with cloves and PP_150_10_20 treated with cloves after extraction.

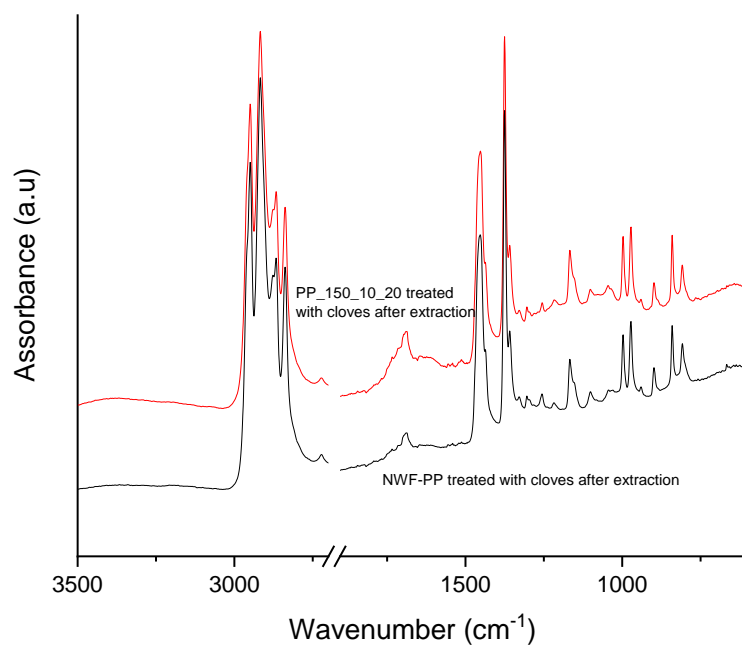


Figure S6: FTIR-ATR of samples NWF-PP_cloves and PP_150_10_20_cloves both analysed after extraction