Electronic Supplementary Material (ESI) for RSC Advances.
This journal is © The Royal Society of Chemistry 2018

Fig. S1. Effects of ethanol concentration on the extraction yield of LJ (Y_1), TT (Y_2), PT (Y_3), APTT (Y_4), FIB (Y_5) and DPPH free radical scavenging activity (Y_6).

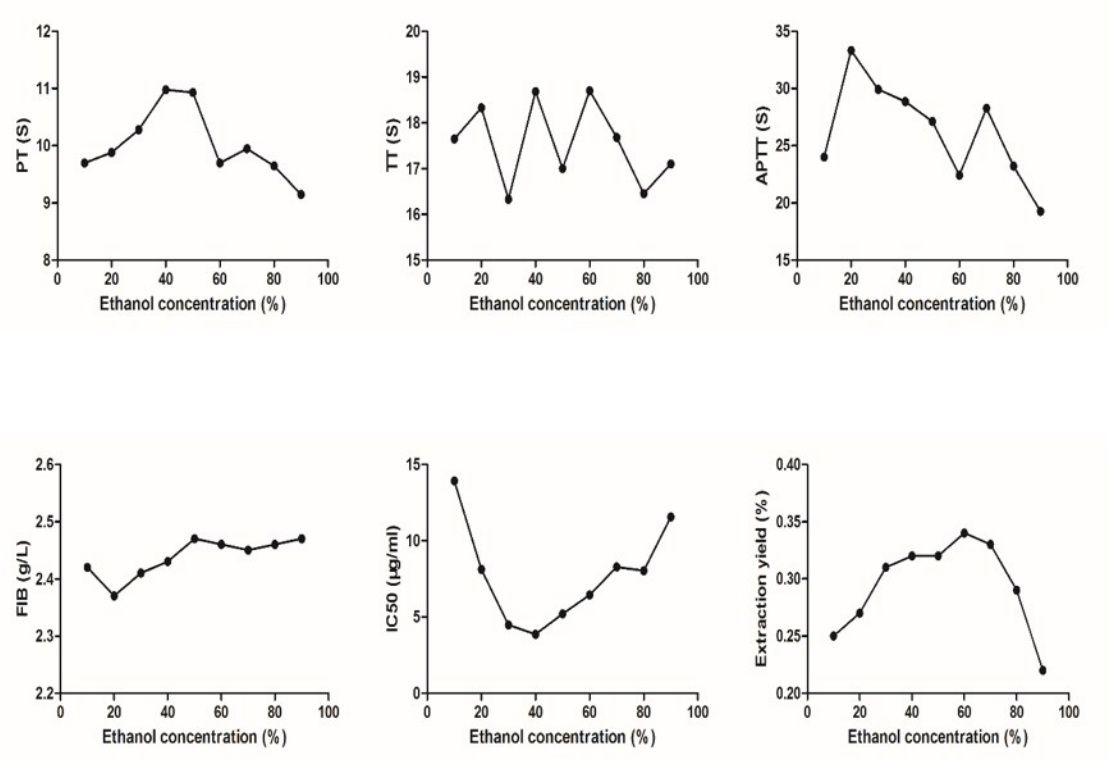


Fig. S2. Effects of ratio of solvent to solid on the extraction yield of LJ (Y_1), TT (Y_2), PT (Y_3), APTT (Y_4), FIB (Y_5) and DPPH free radical scavenging activity (Y_6).

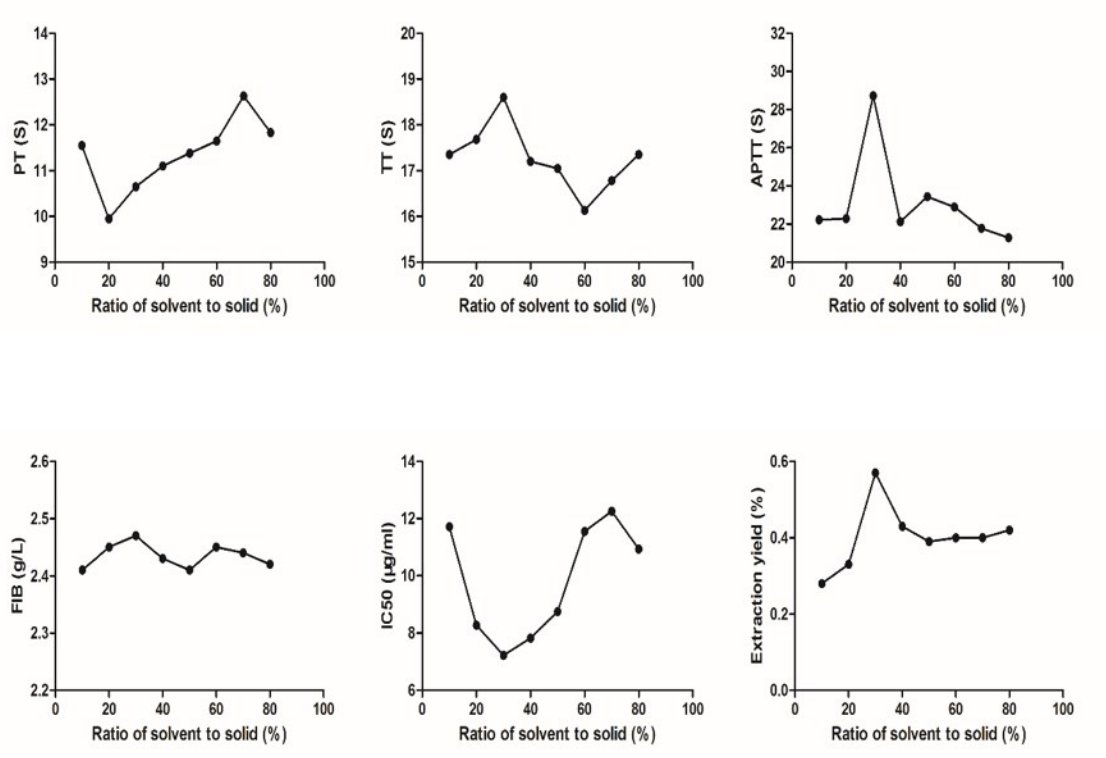


Fig. S3. Effects of extraction temperature on the extraction yield of LJ (Y_1), TT (Y_2), PT (Y_3), APTT (Y_4), FIB (Y_5) and DPPH free radical scavenging activity (Y_6).

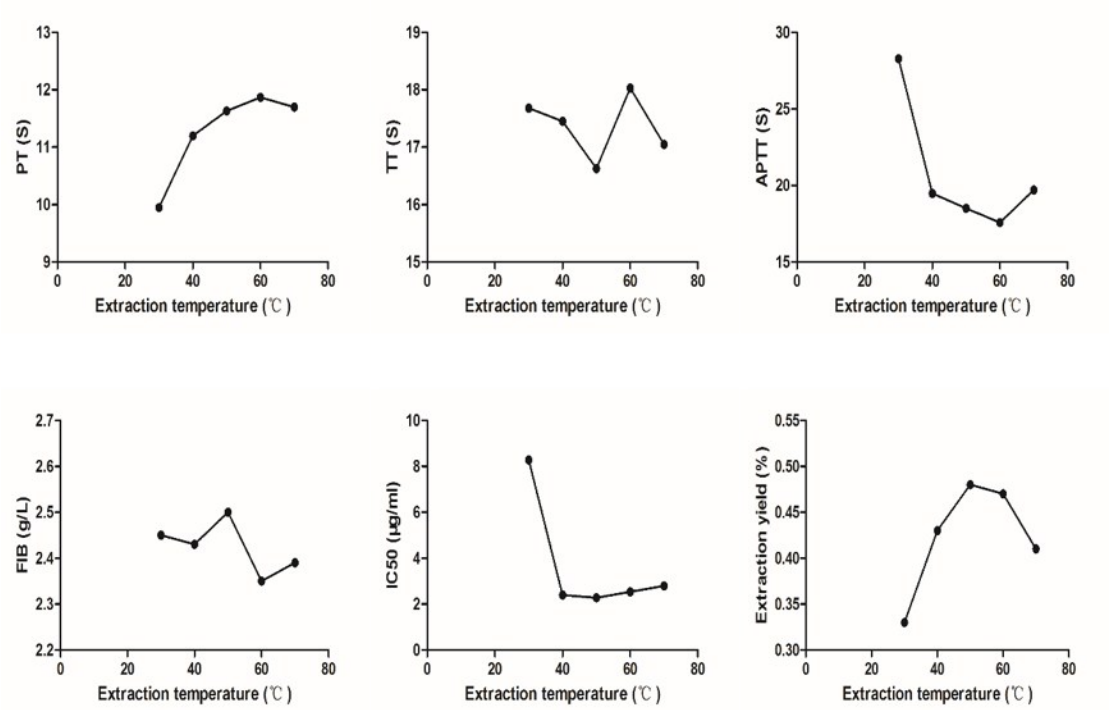


Fig. S4. Effects of ultrasonic power on the extraction yield of LJ (Y_1), TT (Y_2), PT (Y_3), APTT (Y_4), FIB (Y_5) and DPPH free radical scavenging activity (Y_6).

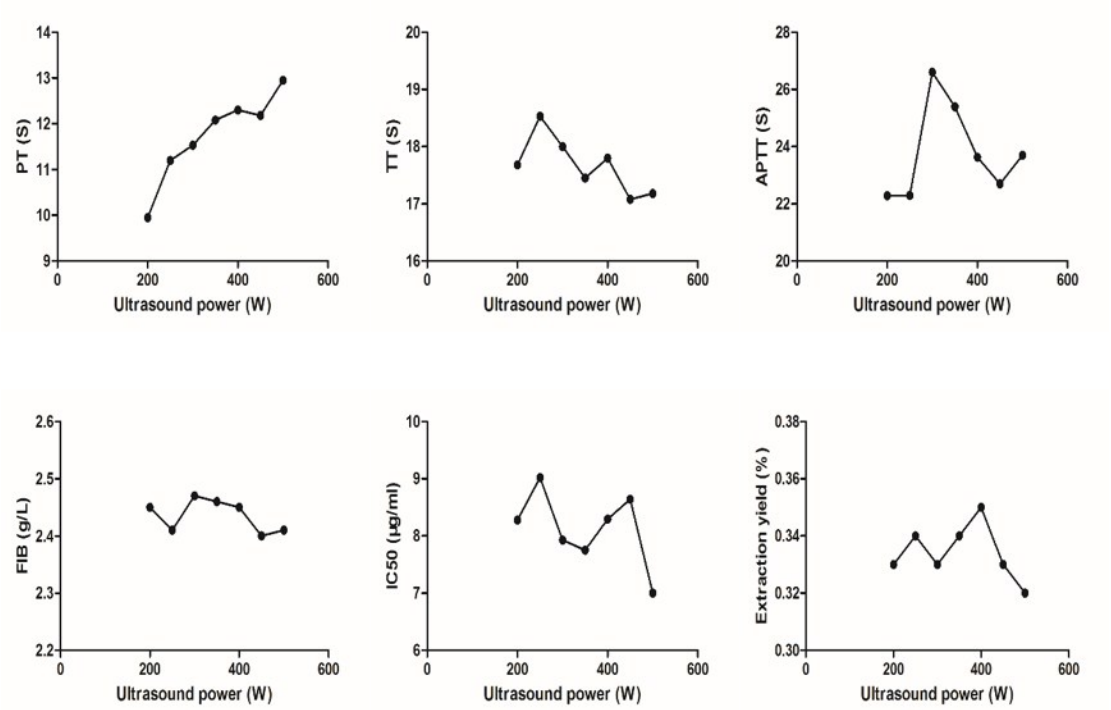


Fig. S5. Response surface (3-D) and contour plots showing the effects of (A and a) extraction temperature (X_2) and ethanol concentration (X_3), (B and b) ultrasonic time (X_1) and ethanol concentration (X_3) and (C and c) ultrasonic time (X_1) and extraction temperature (X_2) on PT (Y_3).

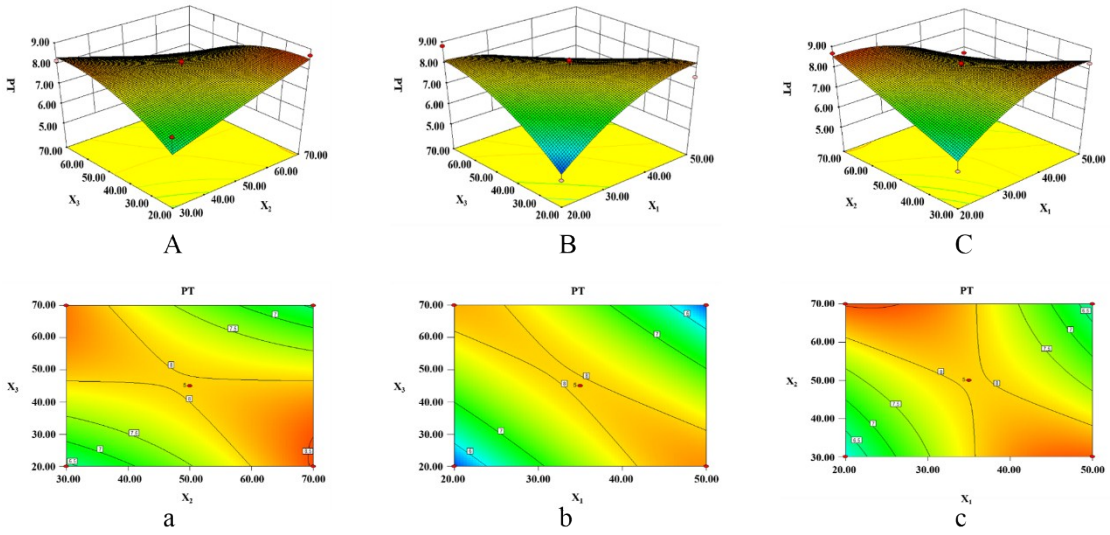
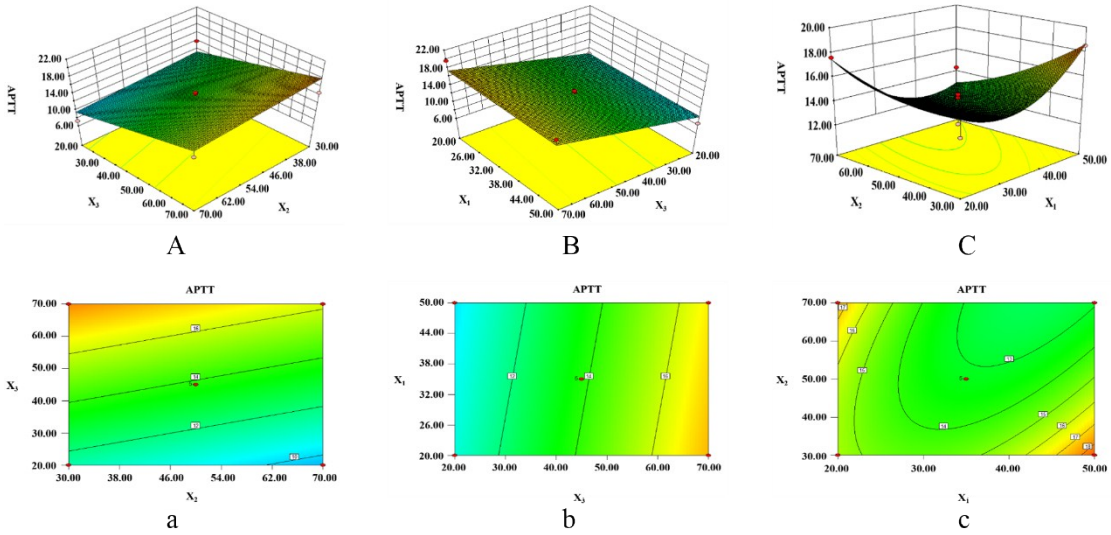


Fig. S6. Response surface (3-D) and contour plots showing the effects of (A and a) extraction temperature (X_2) and ethanol concentration (X_3), (B and b) ultrasonic time (X_1) and ethanol concentration (X_3) and (C and c) ultrasonic time (X_1) and extraction temperature (X_2) on APTT (Y_4).



A B C

a b c

Fig. S7. Response surface (3-D) and contour plots showing the effects of (A and a) extraction temperature (X_2) and ethanol concentration (X_3), (B and b) ultrasonic time (X_1) and ethanol concentration (X_3) and (C and c) ultrasonic time (X_1) and extraction temperature (X_2) on FIB (Y_5).

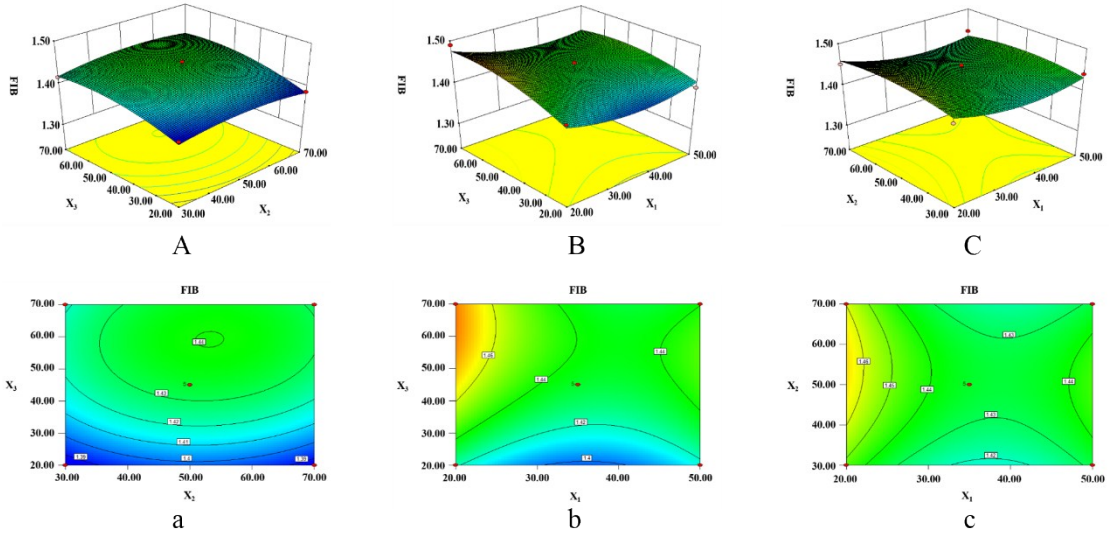


Fig. S8. Response surface (3-D) and contour plots showing the effects of (A and a) extraction temperature (X_2) and ethanol concentration (X_3), (B and b) ultrasonic time (X_1) and ethanol concentration (X_3) and (C and c) ultrasonic time (X_1) and extraction temperature (X_2) on DPPH (Y_6).