Piezostimulation using ultrasound - active poly-L-lactide films: The effects of a ZnO filler and cold atmospheric plasma surface treatment

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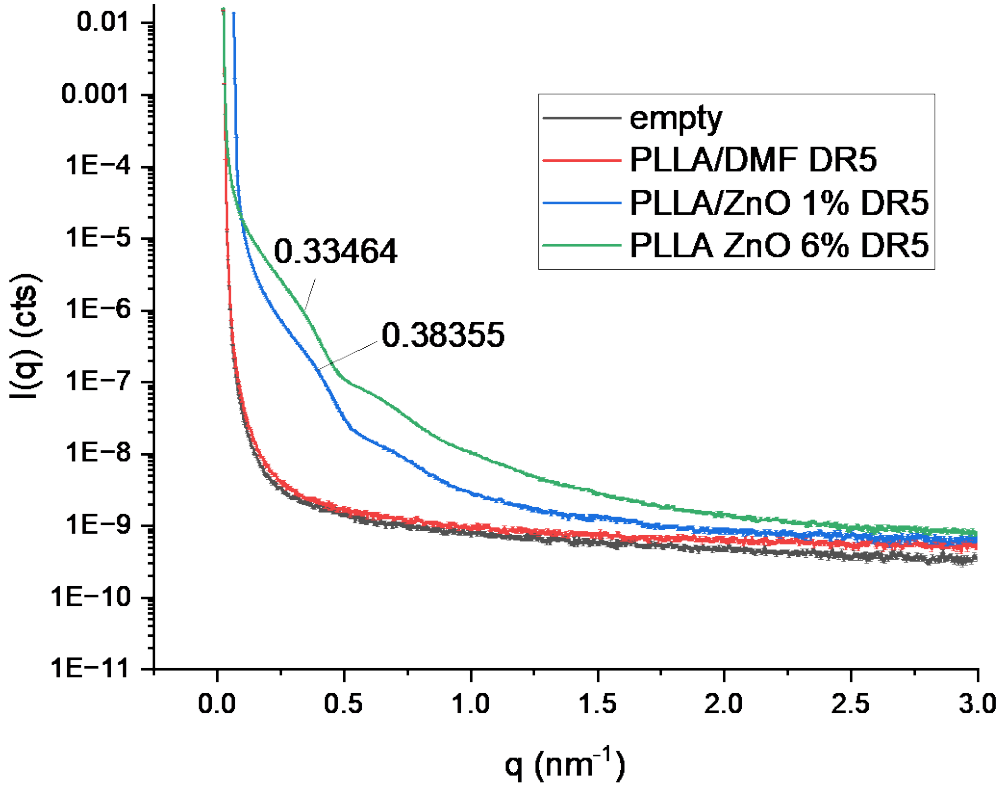

Figure S1 1D graph extracted from 2D SAX images for empty control, PLLA drawn films with and without ZnO NPs fillers.

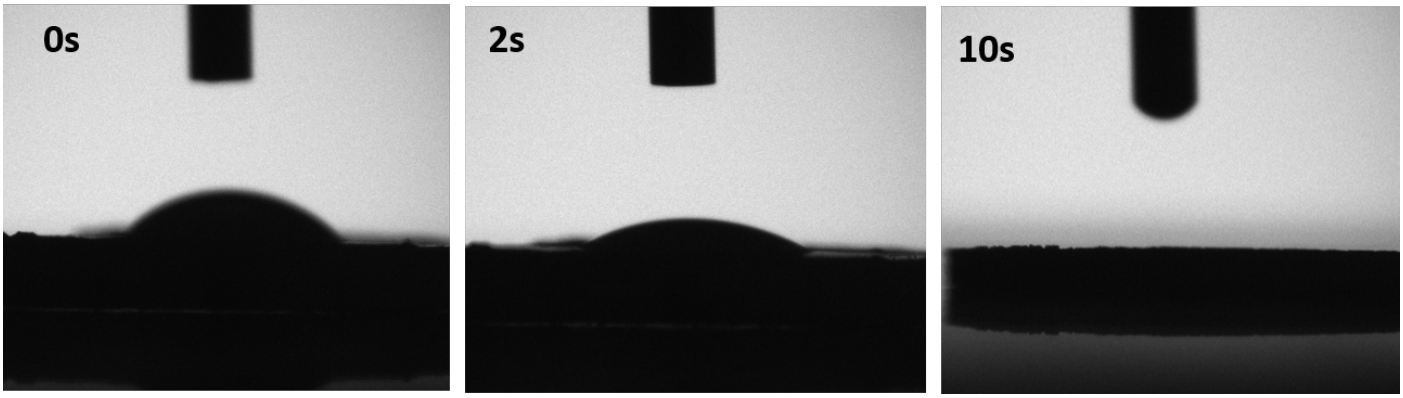

Figure S2. Water contact angle of ZnO NP compressed into a 6-mm tablet, later used as polymeric filler, showing fast spread of the water drop over the surface and confirming highly hydrophilic nature.

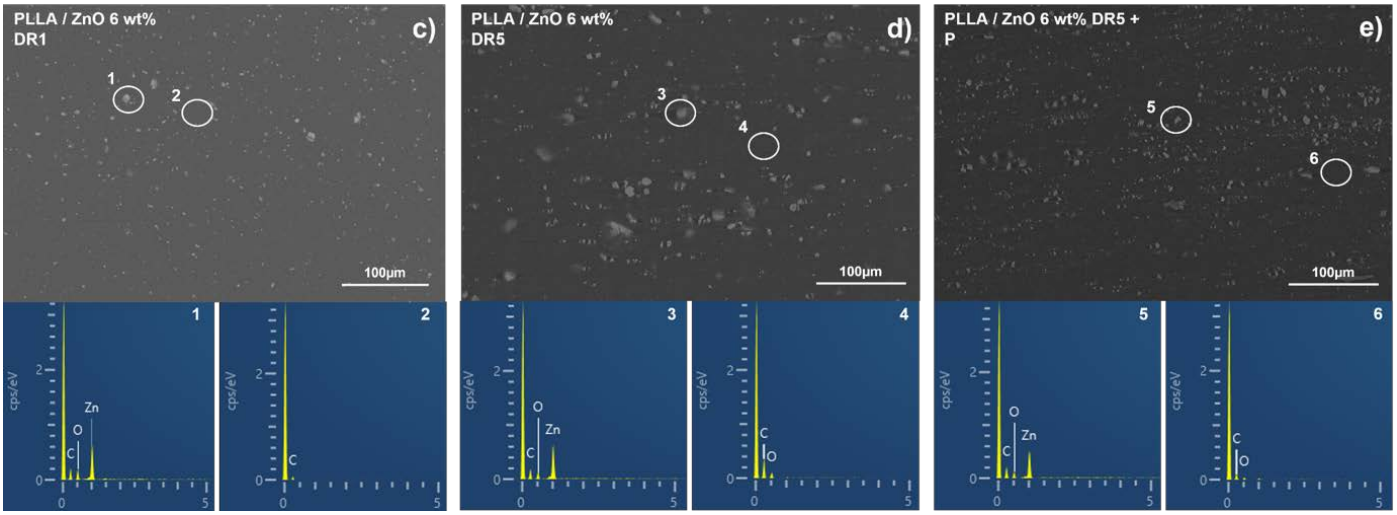

Figure S3: EDS analysis of the surface of PLLA/ZnO 6 wt% DR1, PLLA/ZnO 6 wt% DR5 and PLLA/ZnO 6 wt% DR5 + P showing ZnO particles at the surface of PLLA/ZnO films before and after drawing as well as after treatment with plasma..

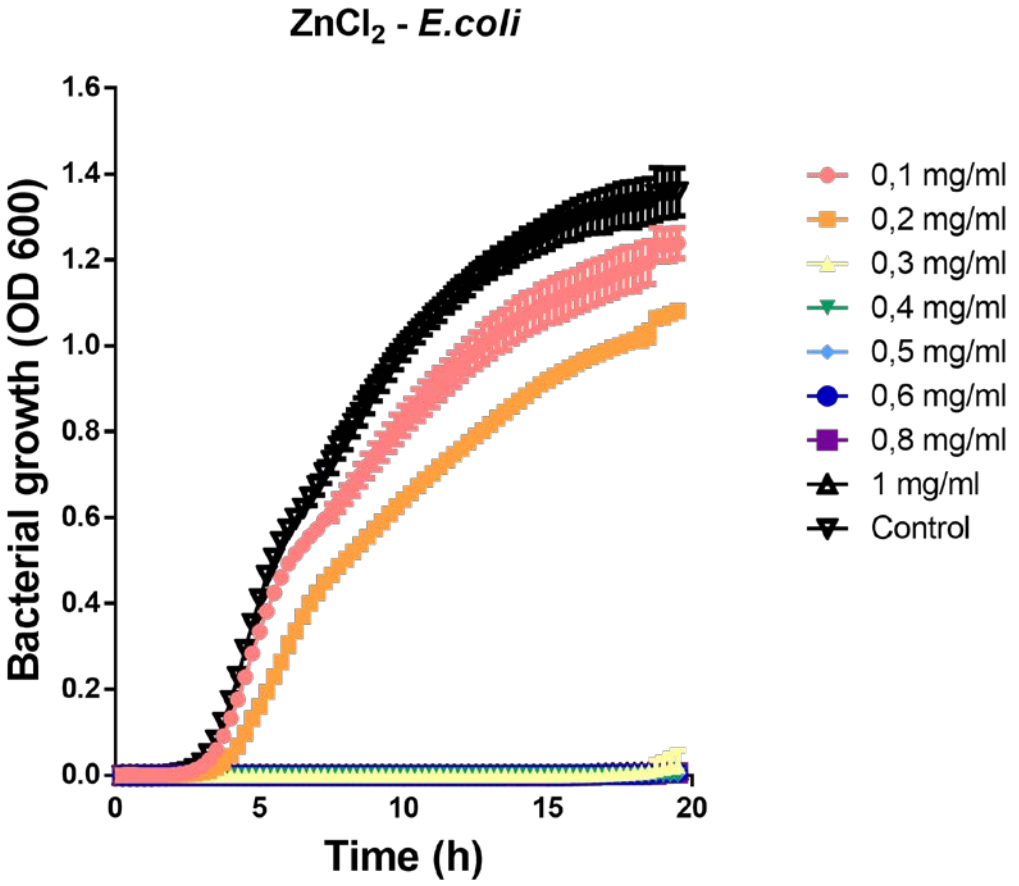

Figure S4. The effect of the Zn^{2+} ions to bacterial growth. The growth kinetics of *E. coli* in presence of different concentrations (0.1-1.0 mg/ml) of zinc-chloride ($ZnCl_2$), control are bacteria in LB medium without Zn^{2+} ions; SD, n=3.