

Electronic Supplementary Information

Microwave-Assisted Synthesis of Silver Nanoparticles as Colorimetric Sensor for Hydrogen Peroxide

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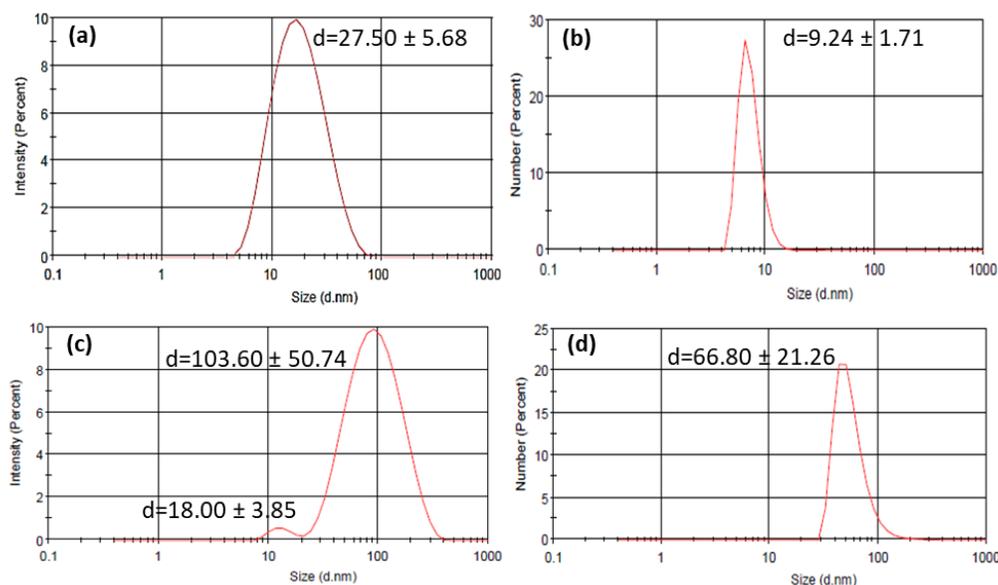


Fig. S1 PSA profile of (a) AgNP1 before and (b) after reaction with H₂O₂, (c) AgNP2 before and (d) after reaction with H₂O₂

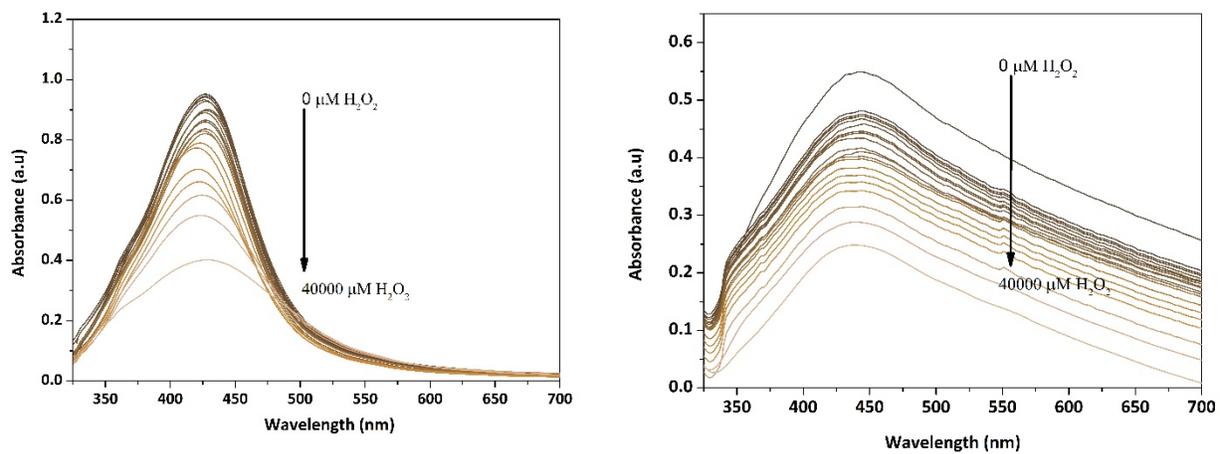


Fig S2. FTIR Spectra of AgNP1 and AgNP2 as respon of increasing the concentration of H₂O₂ from 0 to 40000 μM

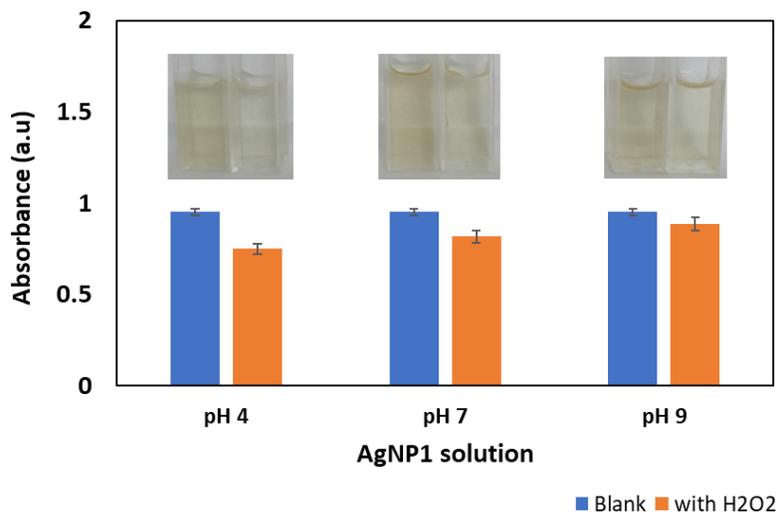


Fig. S3 Effect of pH on H₂O₂ detection

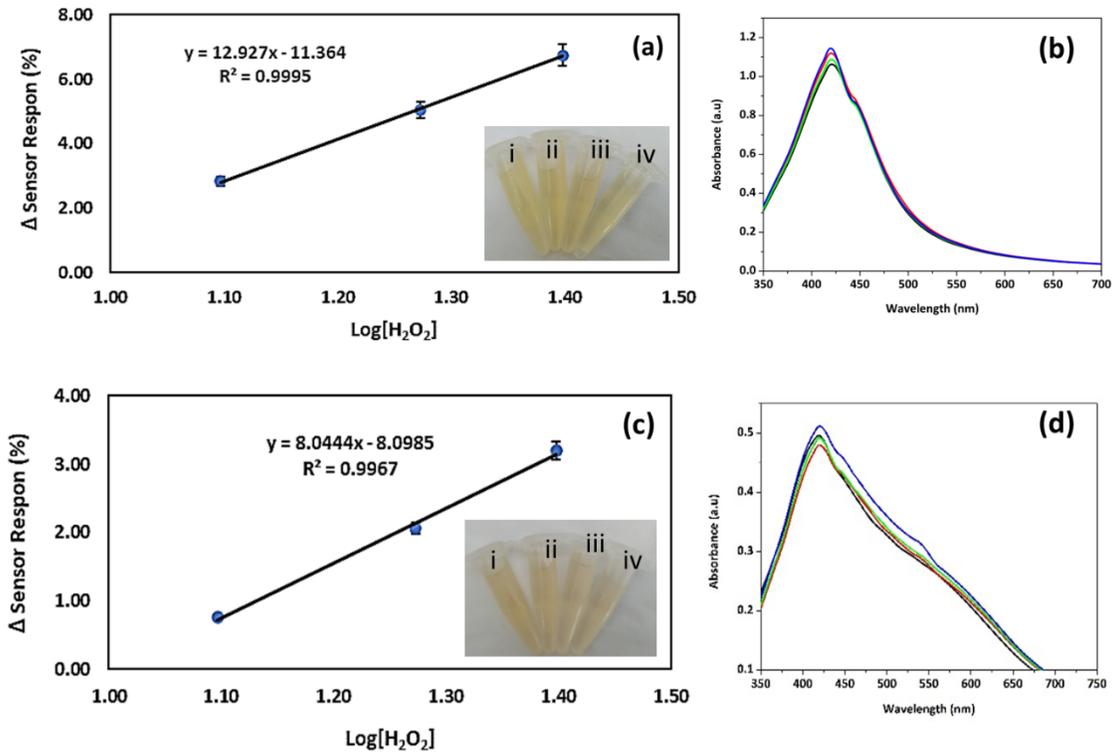


Fig. S4 (a) Calibration curve and (b) Uv-Vis spectra of real sample for H₂O₂ determination using AgNP1, (c) calibration curve and (d) Uv-Vis spectra of real sample for H₂O₂ determination using AgNP2; inset: color change photograph of sample solutions, (i) initial sample, (ii)-(iv) sample was added with 50, 75 and 100 μM.