Electronic Supporting Information

Synergistic Photothermal Antimicrobial Therapy using Graphene Oxide/Polymer Composite Layer-by-Layer Thin Films

Rajendra Kurapati, a Mahalakshmi Vaidyanathan, a and Ashok M Raichur a, b*

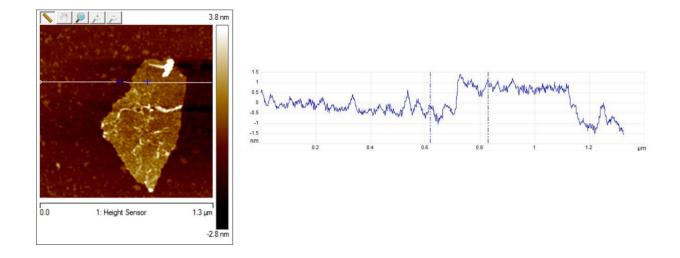


Figure S1. AFM image of exfoliated graphene oxide along with line profile thickness measurement.

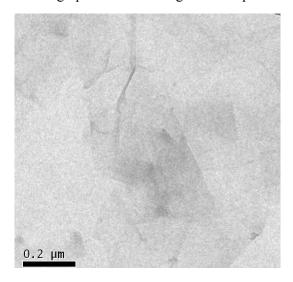


Figure S2. TEM images of exfoliated graphene oxide sheets.

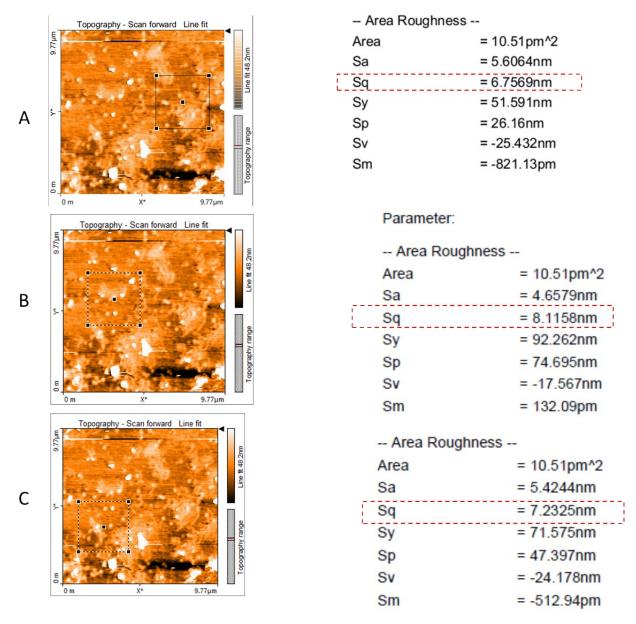


Figure S3: Surface roughness: (A-C) AFM images of the GO/PAH films (20 layers), and the surface roughness values were shown in the left side, root mean square (RMS) value (S_q) was compared for all three films. for the area of ~3.19*3.19 μ m. Average surface roughness is (S_q) 7.36 nm.

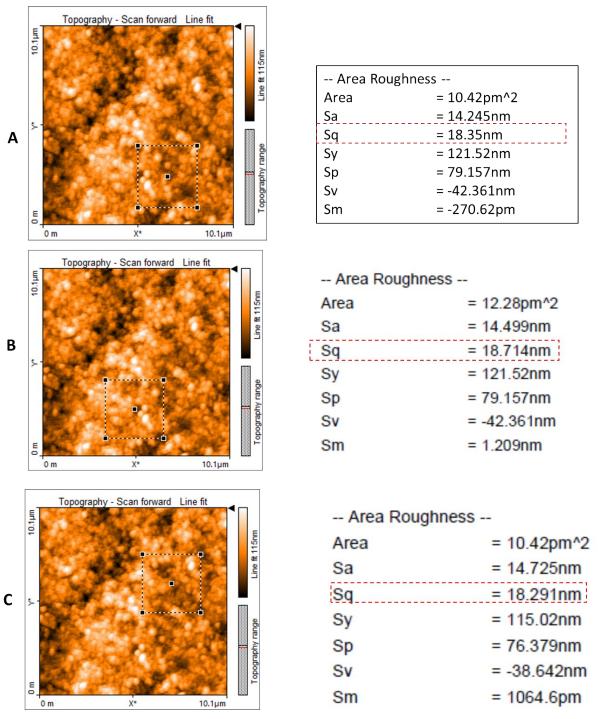


Figure S4: Surface roughness: (A-C) AFM images of the GO/PAH films (40 layers), and the surface roughness values were shown in the left side, root mean square (RMS) value (S_q) was compared for all three films. for the area of ~3.19*3.19 μ m. Average surface roughness is (S_q) 18.45 nm.

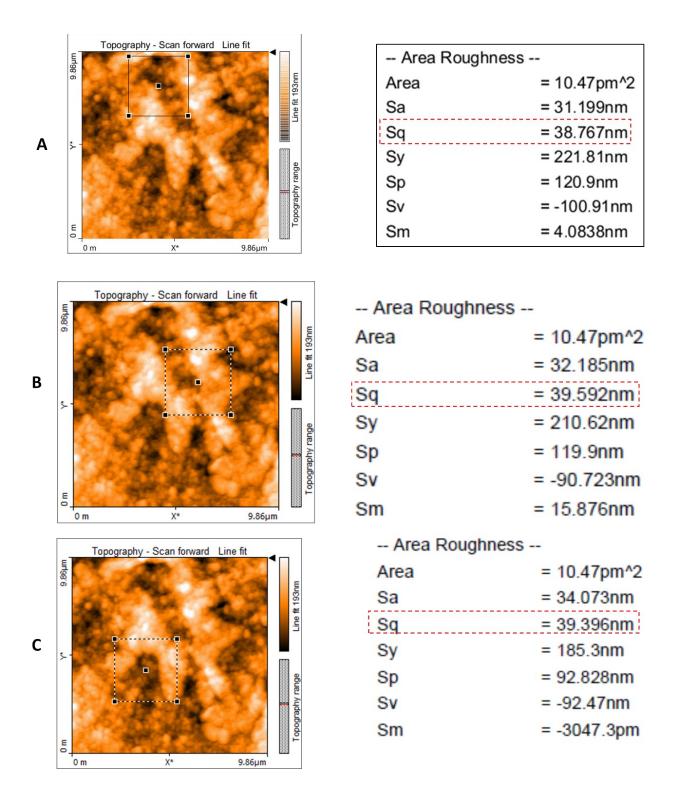
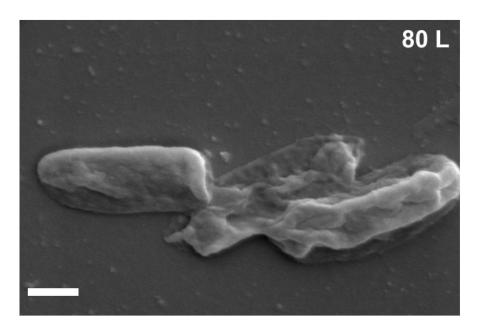


Figure S5: Surface roughness: (A-C) AFM images of the GO/PAH films (80 layers), and the surface roughness values were shown in the left side, root mean square (RMS) value (S_q) was compared for all three films. for the area of ~3.19*3.19 μ m. Average surface roughness is (S_q) 39.24 nm.



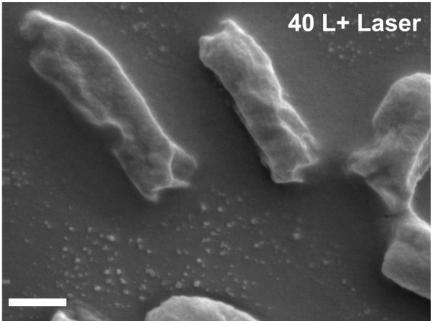


Figure S6: SEM images of 40 layers treated cells (top) and 80 layers + laser treated cells (below) respectively, where scale bar represents 500 nm.