Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2024

## NIR-responsive magnesium phosphate cement loaded simvastatin- nanoparticles with biocompatibility and osteogenesis ability

Bin Wang<sup>a,1</sup>, Yanbin Zhao <sup>b,c,1</sup>, Yangyang Li <sup>b,c</sup>, Junyan Yao <sup>b,c</sup>, Shunjie Wu <sup>a</sup>, Guoping Miu<sup>a,\*</sup>, Chenglin Chu <sup>b,c,\*</sup>

<sup>a</sup> Department of Orthopedics, Rudong People's Hospital, Nantong, 226400, Jiangsu, China

<sup>b</sup> School of Materials Science and Engineering, Southeast University, Nanjing, 211189, China

<sup>c</sup> Jiangsu Key Laboratory for Advanced Metallic Materials, Southeast University, Nanjing, 211189, China

Email address: miuguoping@163.com (G.P. Miu), clchu@seu.edu.cn (C.L. Chu),

<sup>\*</sup> Corresponding author.

<sup>&</sup>lt;sup>1</sup> Bin Wang and Yanbin Zhao contributed equally to this article.

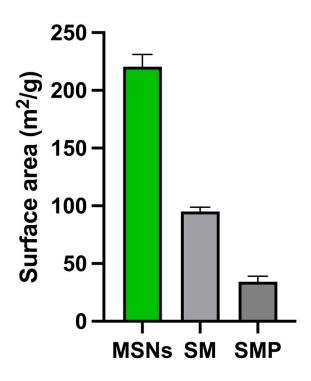


Fig. S1 Surface areas of MSNs, SM, and SMP nanoparticles.