CURRICULUM VITAE

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Position: Lecturer (tenure), NHMRC Research Fellow

Institution: University of New South Wales

Location: Sydney, Australia

Education: 2011 Doctor of Philosophy in Biomedical Engineering, University of Queensland, Australia

Representative Careers: 2016-present, Lecturer and NHMRC Research Fellow, University of New South Wales, Sydney

Specialty & Present Interest:

Drug delivery

Bio-imaging contrast agent development

Early and accurate disease diagnosis

Theranostic nanomedicine

Nanoparticles for cancer therapy

Nanoparticle synthesis and modification

Two-dimensional nanomaterials

Representative papers (up to 5):

1. Z. Cao, L. Zhang, S. Cheong, C. Boyer, J.J. Gooding, Y. Chen, **Z. Gu,*** Biodegradable 2D Fe–Al Hydroxide for Nanocatalytic Tumor-Dynamic Therapy with Tumor Specificity, ***Advanced Science***, 2018, 5, 1801155. (IF: 12.441)

2. B. Li, **Z. Gu,*** N. Kurniawan, W. Chen, Z. P. Xu,* Manganese-Based Layered Double Hydroxide Nanoparticles as a T1-MRI Contrast Agent with Ultrasensitive pH Response and High Relaxivity, ***Advanced Materials***, 2017, 29, 1700373-1700381. (IF: 21.950)
3. X. Qian, **Z. Gu,*** Y. Chen,* Two-dimensional black phosphorus nanosheets for theranostic nanomedicine, ***Materials Horizons***, 2017, DOI: 10.1039/C7MH00305F. (IF: 11.83)
4. **Z. Gu**, B.E. Rolfe, Z.P. Xu, A.C. Thomas, J.H. Campbell, and G.Q. Lu, Enhanced effect of low molecular weight heparin intercalated with layered double hydroxide nanoparticles on rat vascular smooth muscle cells, ***Biomaterials***, 2010, 31, 5455-5462; (IF: 8.806)
5. **Z. Gu**, B.E. Rolfe, Z.P. Xu, A.C. Thomas, J.H. Campbell, and G.Q. Lu, Cellular trafficking of low molecular weight heparin incorporated in layered double hydroxide nanoparticles in rat vascular smooth muscle cells, ***Biomaterials***, 2011, 32, 7234-7240; (IF: 8.806)