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### Biography

Prof. Ji Jian became a full professor in Department of Polymer Science and Engineering, Zhejiang University in 2004. Since 2017, he is director of Institute of Biomedical Macromolecule in Zhejiang University. In 2010, he received the Distinguished Young Scholars Award of the National Science Foundation of China. And in 2015, he was award as Cheung Kong Scholars by Ministry of Education. He is the fellow of The Royal Society of Chemistry and on the editorial advisory board for the *Biointerphases*, *Biomaterials Science* and *J. Biomater. Science, Polymer Edition*. His research focuses on interfacial phenomena for biomedical implant, tissue engineering and nanomedicine. Based on the biomimic strategy, several supramolecular self-assemble methods were explored to develop biocompatible and biofunctional surface for biomedical application. Several innovative techniques have been applied to biomedical devices including cardiovascular stent and catheter, etc

### Selected publication:

1. Haijie Han, Daniel Valdepe rez, Qiao Jin,\* Bin Yang, Zuhong Li, Yulian Wu, Beatriz Pelaz, Wolfgang J. Parak, Jian Ji\*, Dual Enzymatic Reaction-Assisted Gemcitabine Delivery Systems for Programmed Pancreatic Cancer Therapy, **ACS Nano**, 2017, 11, 1281–1291.
2. Dengfeng Hu, Huan Li, Bailiang Wang, Zi Ye, Wenxi Lei, Fan Jia, Qiao Jin, Ke-Feng Ren, and Jian Ji\*, Surface-Adaptive Gold Nanoparticles with Effective Adherence and Enhanced Photothermal Ablation of Methicillin-Resistant *Staphylococcus aureus* Biofilm, **ACS Nano**, 2017, 11, 9330–9339. (IF: 13.942)
3. Huan Li, Yangjun Chen, Tingting Chen, Haijie Han, Hongxin Tong, Qiao Jin and Jian Ji\*, Methemoglobin as a redox-responsive nanocarrier to trigger the in situ anticancer ability of artemisinin, **NPG Asia Materials**, 2017, 9, e423.
4. He Zhang, Kefeng Ren\*, Hao Chang, Jinlei Wang, Jian Ji\*, Surface-mediated transfection of a pDNA vector encoding short hairpin RNA to downregulate TGF- 1 expression for the prevention of in-stent restenosis, **Biomaterials**, 2017, 116, 95-105
5. Tingting Chen, Huan Li, Zuhong Li, Qiao Jin\*, Jian Ji\*, A “writing” strategy for shape transition with infinitely adjustable shaping sequences and in situ tunable 3D structures, **Materials Horizons**, 2016,3,581-587
6. X. Chen, K. Ren,\* J. Zhang, D. Li, E. Zhao, Z. J. Zhao, Z. Xu, J. Ji\*. Humidity-triggered self-Healing of microporous polyelectrolyte multilayer coatings for hydrophobic drug delivery. **Adv. Funct. Mater.**, 2015, 25, 7470-7477
7. X. Liu, Y. Chen, H. Li, N. Huang, Q. Jin, K. Ren, Jian Ji\*, Enhanced retention and cellular uptake of nanoparticles in tumors by controlling their aggregation behavior, **ACS Nano**, 2013,7, 6244-6257
8. X. Liu , J. Cao , H. Li , J. Li , Q. Jin , K. Ren , J. Ji \* , Mussel-inspired polydopamine: A biocompatible and ultrastable coating for nanoparticles in vivo, **ACS Nano**, 2013, 7 , 9384-9395
9. Yu Wei, Ying Ji, Lin-Lin Xiao, Quan-kui Lin, Jian-ping Xu, Ke-feng Ren, Jian Ji\*, Surface engineering of cardiovascular stent with endothelial cell selectivity for in vivo re-endothelialisation, **Biomaterials** 2013,34, 2588-2599