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【在研科研项目】

1. 国家自然科学基金：交变场驱动响应水凝胶的有序结构和力电耦合效应及对细胞行为的调控(51473019), 2015-2018年（项目负责人）
2. 国家自然科学基金：叠层介孔导电凝胶多选择性氧化还原体系及体内能量转换的研究(51273021), 2012-2015年（项目负责人）
3. 国家科技支撑项目：碳基纳米材料的生物安全性评价(2011BAK15B04), 2011-2015年（项目负责人）

【代表性学术论文】

1. The preparation and characterization of double-layer microcapsules used for the self-healing of composites, Ru Tian, Xiaoli Fu, **Yudong Zheng***, Xin Liang, Qiaoli Wang, Ying Ling, Baoshun Hou, *Journal of Materials Chemistry*, 2012, 22:25437-25446
2. Jian Wu, **Yudong Zheng***, Wenhui Song, Jiabin Luan, Qi Wang, Shaolin Guo, In situ synthesis of silver-nanoparticles/bacterial cellulose composites for slow-released antimicrobial wound dressing, *Carbohydrate Polymers*, 2014 (102) 762-771
3. Cauda Equina-Derived Extracellular Matrix for Fabrication of Nanostructured Hybrid Scaffolds Applied to Neural Tissue Engineering, Xiaoxiao Wen, Yu Wang, Zhiyuan Guo, Haoye Meng, Jingxiang Huang, Li Zhang, Bin Zhao, Qing Zhao, **Yudong Zheng***, Jiang Peng, *Tissue Engineering: Part A*, 2015, 21 (5-6): 1095-1105



Yudong Zheng, Professor, School of Materials Science and Engineering, University of Science and Technology Beijing, received her B.E and MSc degrees in Polymer and Composites in Beijing University of Aeronautics and Astronautics and PhD degree in Polymer Science in South China University of Technology. She went to Britain for exchange visits and cooperation of the international projects in 2011 and 2013. Her recent research interest is bio-hydrogel, nano bacterial cellulose, biopolymers and bio-nanocomposites, as well as their applications in biomedical field and tissue regeneration. She is a principle investigator in a portfolio of projects funded by National Natural Science Foundation of China (NSFC), the Ministry of Science and Technology of China and many industries. She has authored/co-authored over 50 peer-reviewed journal papers and 15 patents. She is a member of the Chinese Society of Biomaterials, the Committee member of Chinese Society of Biomedical Engineering-Biological Material Branch, council member of Chinese Society for Composite Materials and International Society for Biomaterial, also the reviewer of some national/international project grant application and International journals.

【Publications】

1. The preparation and characterization of double-layer microcapsules used for the self-healing of composites, Ru Tian, Xiaoli Fu, Yudong Zheng*, Xin Liang, Qiaoli Wang, Ying Ling, Baoshun Hou *Journal of Materials Chemistry*, 2012, 22:25437–25446
2. Jian Wu, Yudong Zhenga,*, Wenhui Songb, Jiabin Luan , Qi Wang , Shaolin Guo, In situ synthesis of silver-nanoparticles/bacterial cellulose composites for slow-released antimicrobial wound dressing, *Carbohydrate Polymers*, 2014 (102) 762– 771
3. Cauda Equina-Derived Extracellular Matrix for Fabrication of Nanostructured Hybrid Scaffolds Applied to Neural Tissue Engineering, Xiaoxiao Wen, Yu Wang, Zhiyuan Guo, Haoye Meng, Jingxiang Huang, Li Zhang, Bin Zhao, Qing Zhao, Yudong Zheng*, Jiang Peng, *TISSUE ENGINEERING: Part A*, 2015, 21 (5- 6): 1095-1105