

个人简历

姓名	王荣	学历	博士研究生
性别	男	婚姻状况	已婚
出生年月	1986.04	籍贯	浙江宁波
民族	汉族	政治面貌	群众
毕业学校	新加坡国立大学	专业	化学与生物分子工程

教育经历

2005.09-2009.06 浙江工业大学，生物技术系，理学学士

2009.08-2014.09 新加坡国立大学，化学与生物分子工程系，博士

工作经历

2014.10-2015.02 新加坡国立大学，化学与生物分子工程系，研究助理

2015.03-至今 新加坡安测医疗有限公司，研发工程师/研发经理

2015.07-至今 新加坡国立大学，访问学者

以往工作业绩：

领导或参与过的项目：

[1] 《Anti-infective and anti-encrustation coating for urinary catheters》，新加坡贸易与工业部标准生产力与创新局（SPRING, Singapore）资助项目，项目经费 25 万新币。（项目主导，具体负责实施，协调合作）

[2] 《Antimicrobial urease inhibitor-containing coating for urinary catheters》，国大健康系统-国家健康创新中心（National University Health System-National Health Innovation Centre, Singapore）资助项目，项目经费 10 万新币。（合作者）

[3] 《Reducing microbial contamination in the Intensive Care Unit using agarose/chitosan coated surface: a proof-of-value pilot project》，新加坡国立大学（National University of Singapore）资助项目，项目经费 2.5 万新币。（参与）

[4] 《Pre-clinical testing of a novel biomaterial coating for silicone catheters》，国大健康系统（National University Health System, Singapore）资助项目，项目经费 10 万新币。（主要参与）

[5] 《Surface modification of peritoneal dialysis catheters to inhibit infection and omental wrapping》，新加坡国家医学研究理事会（National Medical Research Council, Singapore）资助项目，项目经费 42.4 万新币。（参与）

[6] 《A biomaterial strategy to prevent *Acinetobacter* biofilm formation》，新加坡国家医学研究理事会（National Medical Research Council, Singapore）资助项目，项目经费 20 万新币。（主要参与）

[7] 《New methodologies for functionalizing catheters to inhibit bacterial adhesion and colonization》，新加坡国立大学（National University of Singapore）资助项目，项目经费 5 万新币。（主要参与）
代表性论文（著）：

[1] **Wang R**, Chua KL, Neoh KG. Bifunctional coating with sustained release of 4-amide-piperidine-C12 for long-term prevention of biofilm formation on silicone. **ACS Biomater. Sci. Eng.** 2015, *1*, 405-415. [2016 IF: **3.234**]

[2] **Wang R**, Neoh KG, Kang ET, Tambyah PA, Chiong E. Antifouling coating with controlled and sustained silver release for long-term inhibition of infection and encrustation in urinary catheters. **J. Biomed. Mater. Res. B** 2015, *103*, 519-528. [2016 IF: **3.189**]

[3] **Wang R**, Neoh KG, Kang ET. Integration of antifouling and bactericidal moieties for optimizing the efficacy of antibacterial coatings. **J. Colloid Interface Sci.** 2015, *438*, 138-148. [2016 IF: **4.233**]

[4] **Wang R**, Neoh KG, Shi, ZL, Kang ET, Tambyah PA, Chiong E. Inhibition of *Escherichia coli* and *Proteus mirabilis* adhesion and biofilm formation on medical grade silicone surface. **Biotechnol. Bioeng.** 2012, *109*, 336-345. [2016 IF: **4.481**]

[5] Mandakhalikar KD, Rahmat JN, **Wang R**, Neoh KG, Tambyah PA, Chiong E. Novel silver nanoparticle coated silicone urinary catheter reduces bacterial infection in mice. (Abstracts) **BJU Int.** 2017, *119(S4)*, 4-47. [2016 IF: **4.338**]

[6] Mitra D, Li M, **Wang R**, Tang ZH, Neoh KG, Kang ET. Scalable aqueous-based process for coating polymer and metal substrates with stable quaternized chitosan antibacterial coatings. **Ind. Eng. Chem. Res.** 2016, *55*, 9603-9613. [2016 IF: **2.843**]

[7] Mandakhalikar KD, Neoh KG, Tambyah PA, Chiong E, **Wang R**, Chua RR. Anti-biofilm activity of silver nanoparticle coated silicone urinary catheter. (Abstracts) **Int. J. Urol.** 2016, *23(S1)*, 123-124. [2016 IF: **1.844**]

[8] Xu LQ, Yap BSM, **Wang R**, Neoh KG, Kang ET, Fu GD. Catecholamine-induced electroless metallization of silver on silica@polymer hybrid nanospheres and their catalytic applications. **Ind. Eng. Chem. Res.** 2014, *53*, 3116-3124. [2016 IF: **2.843**]

[9] Neoh KG, **Wang R**, Kang ET. “Surface nano engineering for combating biomaterials infections” in **Biomaterials and Medical Device-Associated Infections**, editors: Lara Barnes and Ian Cooper, Chapter 7, Woodhead Publishing UK. 2014.

[10] Xu LQ, Chen JC, **Wang R**, Neoh KG, Kang ET, Fu GD. A poly(vinylidene fluoride)-graft-poly(dopamine acrylamide) copolymer for surface functionalizable membranes. **RSC Adv.** 2013, *3*, 25204-25214. [2016 IF: **3.108**]

[11] Li M, Neoh KG, **Wang R**, Zong BY, Tan JY, Kang ET. Methotrexate-conjugated and hyperbranched polyglycerol-grafted Fe₃O₄ magnetic nanoparticles for targeted anticancer effects. **Eur. J. Pharm. Sci.** 2013, *48*, 111-120. [2016 IF: **3.756**]

[12] Chen T, **Wang R**, Xu LQ, Neoh KG, Kang ET. Carboxymethyl chitosan-functionalized magnetic nanoparticles for disruption of biofilms of *Staphylococcus aureus* and *Escherichia coli*. **Ind. Eng. Chem. Res.** 2012, *51*, 13164-13172. [2016 IF: **2.843**]

[13] Li M, Neoh KG, Xu LQ, **Wang R**, Kang ET, Lau T, Olszyna DP, Chiong E. Surface modification of silicone for biomedical applications requiring long-term antibacterial, antifouling, and

hemocompatible properties. **Langmuir** 2012, 28, 16408-16422. [2016 IF: **3.833**]

[14] Xu LQ, Zhang B, **Wang R**, Chen Y, Neoh KG, Kang ET, Fu GD. Fluorescent nanoparticles from self-assembly of β -cyclodextrin-functionalized fluorene copolymers for organic molecule sensing and cell labeling. **Polym. Chem.** 2012, 3, 2444-2450. [2016 IF: **5.375**]

[15] Xu LQ, Huang C, **Wang R**, Neoh KG, Kang ET, Fu GD. Synthesis and characterization of fluorescent perylene bisimide-containing glycopolymers for Escherichia coli conjugation and cell imaging. **Polymer** 2011, 25, 5764-5771. [2016 IF: **3.684**]

[16] Cai T, **Wang R**, Yang WJ, Lu SJ, Neoh KG, Kang ET. Multi-functionalization of poly(vinylidene fluoride) membranes via combined "grafting from" and "grafting to" approaches. **Soft Matter** 2011, 7, 11133-11143. [2016 IF: **3.889**]

[17] Cai T, **Wang R**, Neoh KG, Kang ET. Functional poly(vinylidene fluoride) copolymer membranes via surface-initiated thiol-ene click reactions. **Polym. Chem.** 2011, 2, 1849-1858. [2016 IF: **5.375**]

申请的专利:

专利类型: 发明; **专利名称:** Surface Modification (表面修饰); **申请号:** PCT/SG2014/000291、11201510073U (SG)、201480035004.1 (CN); **申请人:** 新加坡国立大学; **发明人:** 王荣 (Wang Rong)、梁君仪 (Neoh Koon Gee)、钟俞明 (Chiong Edmund)、康燕堂 (Kang En-Tang)、淡马亚 (Tambyah Paul Anantharajah); **申请时间:** 2014.06.19; **申请国家:** 中国、新加坡; **法律状态:** 审查状况