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Carolina Distinguished Professor

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A. Professional Preparation

Tsinghua University, P.R. China	Chemistry	B.S., 1987-1992
Tsinghua University, P.R. China	Chemistry	Ph.D., 1992-1997
University of Lausanne, Lausanne, Switzerland	Chemistry	Postdoc., 1997-1999
The Scripps Research Institute, La Jolla, USA	Chemistry	Postdoc., 1999-2001

B. Appointments

<u>Dates</u>	<u>Title</u>	<u>Institution</u>	<u>Department</u>
2013-	Carolina Distinguished Professor	University of South Carolina	University of South Carolina
2009-2012	Robert L. Sumwalt Professor of Chemistry	University of South Carolina	University of South Carolina
2011-	Professor	University of South Carolina	Chemistry
2008-2011	Associate Professor	University of South Carolina	Chemistry
2003-2008	Assistant Professor	University of South Carolina	Chemistry
2001-2003	Senior Scientist	The Scripps Research Institute	Chemistry

C. Products (5 most relevant + 5 other significant publications from > 240; h-index 51)

(i) Publications most closely related to the proposed project

1. Wu, J.; Li, Y.; He, C.; Kang, J.; Ye, J.; Xiao, Z.; Zhu, J.; Chen, A.; Feng, S.; Li, X.; Xiao, J.; Xian, M.; Wang, Q.; "Novel H₂S Releasing Nanofibrous Coating for In Vivo Dermal Wound Regeneration", *ACS Applied Materials and Interfaces*, **2016**, 8, 27474-27481.
2. Feng, S.; Zhao, Y.; Xian, M.; Wang, Q.; "Hydrogen Sulfide-Releasing Electrospun Polycaprolactone Fibers as Cell Scaffolds for Tissue Engineering", *Acta Biomaterialia*, **2015**, 27, 205-213.
3. Feng, S.; Duan, X.; Lo, P.-K.; Liu, S.; Liu, X.; Chen, H.; Wang, Q.; "Expansion of breast cancer stem cells with fibrous scaffolds", *Integrative Biology*, **2013**, 5, 768-777. (Highlighted as the front cover)
4. Saha, S.; Duan, X.; Wu, L.; Lo, P.-K.; Chen, H.; Wang, Q.; "Electrospun fibrous scaffolds promote breast cancer cell alignment and epithelial-mesenchymal transition", *Langmuir*, **2012**, 28, 2028-2034.
5. Saha, S.; Lo, P.-K.; Duan, X.; Chen, H.; Wang, Q.; "Breast tumor initiating cell fate are regulated by microenvironmental cues from extracellular matrix", *Integrative Biology*, **2012**, 4, 897-904.

(ii) Other significant/related publications

6. Zan, X.; Feng, S.; Balizan, E.; Lin, Y.; Wang, Q.; "General and facile method to align one dimensional nanoparticles in macro scale and control over myoblast orientation and differentiation", *ACS Nano* **2013**, 7, 8385-8396. (Highlighted as the front cover)
7. Lin, Y.; Balizan, E.; Lee, L. A.; Niu, Z.; Wang, Q.; "Self-assembly of rod-like bionanoparticles in capillary tube", *Angew. Chem. Int. Ed.* **2010**, 49, 868-872.
8. Li, T.; Ye, B.; Niu, Z.; Thompson, P.; Seifert, S.; Lee, B.; Wang, Q.; "Soft Raspberry-like Colloids Assembled from Icosahedral Plant Virus and Polymer", *Chemistry of Materials* **2009**, 21, 1046-1050.
9. Zhou, J.; Long, S.; Wang, Q.; Dinsmore, A.D.; "Direct Measurement of Forces inside a Three-Dimensional Pile of Frictionless Droplets", *Science*, **2006**, 312, 1631-1633.

10. Russell J. T.; Lin, Y.; Böker, A.; Long, S.; Carl, P.; Zettl, H.; He, J.; Sill, K.; Tangirala, R.; Emrick, T.; Littrell, K.; Thiyagarajan, P.; Cookson, D.; Fery, A.; Wang, Q.; Russell, T.P.; "Self-assembly and Cross-linking of Bionanoparticles at Liquid-Liquid Interfaces", *Angew. Chem. Int. Ed.* **2005**, *44*, 2420-2426.

D. Five Synergistic Activities

1. **Honors:** University of South Carolina, Russell Research Award (2017); South Carolina South Carolina ACS Outstanding Chemist Award, 2016; Guest Professor of Tianjin University, China, 2016-2017; Guest Professor of Guizhou University, China, 2014-2016; AAAS Fellow, 2012; Guest Professor of Changchun Institute of Applied Chemistry, CAS, China, 2010; USC Rising Star Award, 2010; NSF American Competitiveness Fellow Award, 2009; South Carolina Governor's Young Scientist Award, 2009; CAPA Distinguished Junior Faculty Award, 2008; NSF CAREER, 2008; Alfred P. Sloan Research Scholar, 2008; Camille Dreyfus Teacher Scholar Award, 2008
2. **Editorial Board Member:** "Experimental Biology and Medicine" for Bionanoscience (2006-2015); "The Open Nanomedicine Journal" (2008-), "Scientifica" (2012-), "Journal of Applied Chemistry" (2013), "Chinese Chemistry Letters" (2013-), and "Current Synthetic & System Biology" (2013-)
3. **Chair** of the Conference Advisory Committee of the Chinese-American Chemistry and Chemical-Biology Professors Association (2010-); Thrust leader of the Nano-biotechnology Thrust Area at Nanocenter of USC (2005 -)
4. **Guest Editor** for "Chemistry An Asian Journal" (2011) and the America Regional Editor for "*Letters in Organic Chemistry*" (2005 - 2006)
5. **Co-Chair** of Symposiums at ACS National meeting, Division of Colloid and Surface Chemistry: March **2016**, San Diego, "Frontier of the Interface of Materials and Biology"; August **2014**, San Francisco, "Frontier of the Interface of Materials and Biology: Using Nanotechnology To Investigate Cellular and other Biological Systems"; April **2013**, New Orleans, "Frontier of the Interface of Materials and Biology: Using Nanotechnology To Investigate Cellular and other Biological Systems"; August **2009**, Washington, D.C., "Nanoparticle-Biological Cell Interactions"; August 2008, Philadelphia, "Hierarchically organized nanoparticle assemblies: Learning from biological systems"; August **2005**, Washington, D.C., "Surface Chemistry: Nanoparticles and Bionanoparticles: From Synthesis to Assembly to Materials". **Co-Chair** of the 5th "Sino-US Chemistry and Chemical Biology Symposium", Lanzhou, P. R. China, **2009**; the 6th "Sino-US Chemistry and Chemical Biology Symposium", Hangzhou, P. R. China, **2010**; the 8th "Sino-US Chemistry and Chemical Biology Symposium", Kuming, P. R. China, **2012**; the 13th "Sino-US Chemistry and Chemical Biology Symposium: Chemistry: The Central Science in Technology Innovation and Medicine", Shanghai, P. R. China, **2017**

E. Advisors and Advisees

(ii) Investigators' graduate and postdoctoral advisors (Total = 3)

Ph.D.	Yufen Zhao	Tsinghua University, P.R. China
Postdoctoral Sponsor	Manfred Schlosser	University of Lausanne, Switzerland
Postdoctoral Sponsor	M.G. Finn	Georgia Institute of Technology

(iii) Thesis advisor students and postgraduate-scholar sponsor (Total = 67)

M.S. Students w/Thesis (Total = 6)

Ph.D. Students (Total = 34)

Postdoctoral Scholars Sponsored (Total = 27)