

# Roger Ronghua Wang, PhD

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## Education

09/2003 – 12/2007	Doctor of Philosophy (PhD) in Textile and Clothing Technology <b>The Hong Kong Polytechnic University (Hong Kong, China)</b>
09/2000 – 06/2003	Master of Philosophy (MPhil) in Metal Corrosion and Protection of Oilfield <b>Huazhong University of Science and Technology (Wuhan, China)</b>
09/1996 - 06/2000	Bachelor of Science (BSc) in Chemistry Education <b>Centre China Normal University (Wuhan, China)</b>

## Work Experience

07/2008 – current	<b>Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong</b> Postdoctoral Fellow <ul style="list-style-type: none"><li>Principle Investigator of the project titled “Advanced Sunlight Self-cleaning Treatment”</li></ul>
09/2007 – 06/2008	<b>Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong</b> Research Associate <ul style="list-style-type: none"><li>Associated with the project titled “Advanced Functional Surface Treatment Technology for Textiles Materials” (HKRITA Grant No. ITP/008/07TP)</li><li>Achieved 1 US patent</li></ul>
11/2006 – 09/2007	<b>Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong</b> Research Assistant <ul style="list-style-type: none"><li>Associated with the project titled “High Performance Advanced Materials for Textiles Materials” (CERG Grant No. 5289/03E)</li></ul>
09/2004 – 09/2005	<b>Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hong Kong</b> Teaching Assistant
06/2001 – 12/2001	<b>Shenzhen Junye Nano Materials Co. Ltd, Shenzhen, China</b>
06/2000 – 08/2000	<b>Department of Chemistry, Centre China Normal University, Wuhan, China</b>

## Publications

### (a) Refereed Journal Papers:

- R. H. Wang, J. H. Xin, *Advanced Visible Light Self-Cleaning Treatment for Textile Materials*, 86<sup>th</sup> Textile Institute World Conference, (2), Conference Proceedings, pp. U84-U96 (2008)
- B. Fei, B. T. Qian, Z. Y. Yang, R. H. Wang, W. C. Liu, C. L. Mak, J. H. Xin, *Coating carbon nanotubes by spontaneous oxidative polymerization of dopamine*, Carbon, 46(13): pp.1795-1797 (2008)
- H. F. Lu, B. Fei, J. H. Xin, R. H. Wang, L. Li, W. C. Guan, *Synthesis and lubricating performance of a carbon nanotube seeded miniemulsion*, Carbon, 45 (5): pp. 936-942 (2007)
- Y. Y. Liu, J. Tang, R. H. Wang, H. F. Lu, L. Li, Y. Y. Kong, K. H. Qi, J. H. Xin, *Artificial lotus leaf structures from assembling carbon nanotubes and their applications in hydrophobic textiles*, Journal of Materials Chemistry, 17 (11): pp.1071-1078 (2007)
- R. H. Wang, Z. G. Hu, Y. Y. Liu, H. F. Lu, B. Fei, W. L. Chan, Y. S. Szeto, X. M. Tao, J. H. Xin, *Self-Assembled Gold Nanoshells on biodegradable Chitosan Fibers*, Biomacromolecules, 7 (10): pp. 2719-2721 (2006)
- Y. Y. Liu, X. Q. Chen, R. H. Wang, J. H. Xin, *Polymer microspheres stabilized by titania nanoparticles*, Materials Letters, 60(29-30): pp. 3731-3734 (2006)
- B. Fei, H. F. Lu, R. H. Wang, J. H. Xin, *Monodisperse Organosilica Microcapsules with Functional Groups by Self-catalysis*, Chemistry Letters, 35(6): pp.622-623 (2006)
- R. H. Wang, J. H. Xin, X. M. Tao, *Mutifunctional protective self-assembled monolayers of modified silanes on oriented growth of ZnO nanorods on cotton fabrics*, Abstracts of papers of the American chemical society, 230 (16-COLL.): pp. U1044-U1044 (2005)
- R. H. Wang, J. H. Xin, X. M. Tao, *Multi-functional protective nano-finishing of textile materials I: Self-cleaning surfaces*, Abstracts of papers of the American chemical society, 230 (273-INOR.): pp. U2145-U2145 (2005)
- Y. Y. Liu, R. H. Wang, W. Chen, X. Q. Chen, Z. G. Hu, X. Y. Cheng, J. H. Z. Xin, *Kabob-like Carbon Nanotube Hybrids*, Chemistry Letters, 35 (2): pp.200-201 (2006)
- H. F. Lu, B. Fei, J. H. Xin, R. H. Wang, L. Li, *Fabrication of UV-blocking nanohybrid coating via miniemulsion polymerization*, Journal of Colloid and Interface Science, 300 (1): pp.111-116 (2006)
- Y. Y. Liu, J. Tang, X. Q. Chen, R. H. Wang, G. K. H. Pang, Y. H. Zhang, J. H. Xin, *Carbon nanotube seeded sol-gel synthesis of silica nano-particle assemblies*, Carbon, 44 (1): pp.165-167 (2006)
- R. H. Wang, J. H. Xin, X. M. Tao, *The UV-blocking property of dumbbell-shaped ZnO crystallites on cotton fabrics*, Inorganic Chemistry, 44 (11): pp.3926-3930 (2005)
- R. H. Wang, J. H. Xin, Tao, X. M., W. A. Daoud, *ZnO nanorods grown on cotton fabrics at low temperature*, Chemical Physics Letters, 398 (1-3): pp.250-255 (2004)
- R. H. Wang, J. H. Xin, Y. Yang, H. F. Liu, L. M. Xu, J. H. Hu, *The characteristics and photocatalytic activities of silver doped ZnO nanocrystallites*, Applied Surface Science, 227 (1-4): pp.312-317 (2004)

### (b) Conferences:

- K. H. Qi, Roger R. H. Wang, X. W. Wang, J. H. Xin. *Nano TiO<sub>2</sub> Based Self-Cleaning Fabric Technology*. South Korea (2009)
- R. H. Wang, J. H. Xin, *Advanced Visible Light Self-Cleaning Treatment for Textile Materials*. The 86<sup>th</sup> Textile Institute World Conference Proceedings Abstract, pp. 84-84, 18-21 November, Hong Kong (2008)
- R. H. Wang, J. H. Xin, Tao, X. M., *Multi-functional protective nano-finishing of textile materials I: Self-cleaning surfaces*, Abstracts of papers of the American chemical society, 230: Inorg-273 August 28 – September 1, Washington, DC, USA (2005)
- R. H. Wang, J. H. Xin, Tao, X. M., *Mutifunctional protective self-assembled monolayers of modified silanes on oriented growth of ZnO nanorods on cotton fabrics*, Abstracts of papers of the American chemical society, 230: Coll-16 August 28-September 1, Washington, DC, USA (2005)

### (c) Patents:

- R. H. Wang, J. H. Xin, *Method of synthesizing metal doped silica/titania nanocomposite for visible light self-cleaning textiles or the likes*. US patent. (2009)