


## Brief CV

<b>Name</b>	Jinsheng Cheng	中文名	程金生	
<b>Gender</b>	Male	<b>Title</b> (Pro./Dr.)	Dr.	
<b>Position</b> (President...)	Vice-President, School of Henry Fok Food Science and Technology, Shaoguan University	<b>Country</b>	China	
<b>University/ Department</b>	School of Henry Fok Food Science and Technology, Shaoguan University Suzhou Tanfeng Graphene Co. Ltd.			
<b>Personal Website</b>	<a href="http://graphenechina.com">http://graphenechina.com</a>			
<b>Research Area</b>	Nanomedicine, Synthesis and Medicinal Application of Graphene			

### Brief introduction of your research experience:

Research interests: Synthesis and medicinal application of functionalized graphene nanocomposites and smart polymer, pharmaceutical chemistry. First inventor for 22 pieces of invention patents of China (8 granted currently) and 8 pieces of patents of USA (3 granted currently). Published over 100 papers as the first author, including 36 pieces of SCI or EI cited papers and 3 pieces of ESI highly cited papers. Published paper: Adv. Syn. & Catal. 2010, 352, 3275-3286 (IF 6.048, was focused by VerticalNews Global Warming:<http://www.verticalnews.com/newsletters/Global-Warming-Focus/> 2011-03-14/61601GWW.html).

#### EDUCATION

**2008.09-2011.07** Ph. D., major in Materials Chemistry, joint training doctoral students programs of University of Science and Technology of China (USTC) and Tsinghua University (TU)

**2000.09-2003.07** M. S., major in Organic Chemistry, co-educated by Shanghai Institute of Organic Chemistry (SIOC) and Guangzhou Institute of Chemistry (GIC), Chinese Academy of Science (CAS)

**1996.09-2000.07** B. S., major in Materials Chemistry, Department of Chemistry, Nanchang University (NCU)

#### WORKING EXPERIENCE

**2016.10-Shaoguan University and Suzhou Tanfeng Graphene Co. Ltd.**, academic leader for Nano medicine, vice-director for School of Henry Fok Food Science and Technology, Shaoguan University, master instructor.

Chief scientist of **Suzhou Tanfeng Graphene Co. Ltd. and Shenzhen Violin Co.Ltd.**

**2011.06-2016.10 Zhejiang Chinese Medical University**, associate professor of medicinal chemistry, academic leader for medicinal chemistry, vice-director for Scientific Faculty.

**2003.06-2008.09 Guangzhou Institute of Biomedicine and Health (GIBH), CAS**, Senior research assistant in Synthetic and Natural Drug Center, research focuses on: Medicinal synthesis (synthesis of Tarceva and Cryptophycin derivatives etc.)

Meanwhile, assisted the director and Principal Investigator of GIBH in purchasing the instruments (Bruker Advance 400 NMR, Jasco FT/IR-6300, ABI 394 DNA/RNA synthesizer, ABI GeneAmp 2700 PCR, Buchi Rotary Evaporator, API 3000 LC/MS/MS System, ELISPOT READER, BIACORE 3000, Savant SNL216V-230 freeze dryer etc.) and the foundation of three new laboratories: Preclinical Research Center, BSL-3 Biochemical Laboratory, SPF animal center.

### HONORS

Jul. 1998, "Outstanding Undergraduate Student" (top 5% rank) in NCU (No. 2000022)

Jul. 2000, A<sup>+</sup> prize in master graduation answering examination (rank first in GIC)

Jun. 2003, "Outstanding Graduate Student" (top 2% rank in GIC, CAS)

Jul. 2003, "President Scholarship" (top scholarship of CAS for students)

Dec. 2008, Third-Grade Award of National Science and Technology Progress of Guangxi Province, China

Sep. 2009, Guangxi Youth Science and Technology Award

Oct. 2011, Member of a council, Chinese Medicine Industry Alliance, Southwestern Zhejiang Province

Feb. 2011, Member of American Pharmacists Association (APhA)

Sep. 2013, Member of American Nano Society (ANS)

May, 2015, Yangfan top-notch talents, Guangdong Province

Dec. 2016, Outstanding peer reviewer of Carbohydrate Polymer (Elsevier)

Dec. 2017, be selected in "2016 Chinese medicine Yearbook (Academic volume)"

May 2018, Second-Grade Award of National Science and Technology Progress of Meizhou City, Guangdong, China

Oct. 2018, Registration of scientific and technological achievements in Guangdong ([2018]0314)

### PUBLICATIONS (selected)

1) Jinsheng Cheng, Ruimin Zhong, Weihong Wan *et al.* Husk Derived Graphene Nanofiber Synthesis and Stirring Bar Sorptive Extraction/GC-MS Application for *Camellia Nitidissima* Chi Fruit Analysis. *Materials*, 2017, 10, 443;

2) Jinsheng Cheng, Ruimin Zhong, Weihong Wan *et al.* Husk Derived Graphene Nanoshuttles Synthesis and MALDI-TOF MS Application for Amino Acids Analysis of *Camellia Nitidissima* Chi. *Nanosci. Nanotechnol. Lett.* 2017, 9, 1-6;

3) Jinsheng Cheng, Weihong Wan, Wenjuan Zhu. One-Pot Solvent-Thermal Synthesis of TiO<sub>2</sub>/Graphene Nanobelts for Selective Renal Cancer Cells Destruction. *Chin. J. Chem.*, 2016, 34(1), 53-58;

4) Jinsheng Cheng Wenjuan Zhu, Weihong Wan *et al.* Intervention of Rhynchophylline on the Learning and Memory Abilities of a Dementia Mouse Model. *Latin Am. J. Pharm.*, 2015, 34(6), 1211-1217;

5) Jinsheng Cheng, Weihong Wan, Xinyan Chen *et al.* Preparation and structural characterization of graphene by rice husk. *Transaction of Chinese Society of Agricultural Engineering*, 2015, 12, 288-294;

6) Jinsheng Cheng, Longhua Tang, Jingying Xu. An Economical, Green Pathway to Biaryls: Palladium Nanoparticles Catalyzed Ullmann Reaction in Ionic Liquid/Supercritical Carbon Dioxide System. *Adv. Syn. & Catal.* 2010, 352, 3275-3286;

7) Jinsheng Cheng, Longhua Tang, *et al.* New Role of Graphene Oxide in the Recyclable Palladium Nanoparticles Catalyzed Reductive Ullmann Reaction in Environmental Friendly Ionic Liquid/Supercritical Carbon Dioxide System. *J. Mater. Chem.* 2011, 21, 3485-3494;

- 8) Jin-Sheng Cheng, Longhua-Tang, Jing-Hong Li. Palladium Nanoparticles-Decorated Graphene Nanosheets as Highly Regioselective Catalyst for Cyclotrimerization Reaction. *J. Nanosci. Nanotech.* 2011, 11, 5159-5168;
- 9) Jinsheng Cheng, Du Jin, Zhu Wenjuan. Facile Synthesis of Three-Dimensional Chitosan-Graphene Mesostuctures for Reactive Black 5 Removal. *Carbohydr. Polym.*, 2012, 88 (1), 61-67;
- 10) Jin-Sheng Cheng, Jing-Hong Li. In-Situ Synthesis of Germanium-Graphene Nanocomposites and their Application as Anode Material for Lithium Ion Batteries. *CrystEngComm*, 2012, 14 (2), 397-400;
- 11) Jin-Sheng Cheng et al. Palladium-catalyzed regioselective cyclotrimerization of acetylenes in supercritical carbon dioxide. *Eur J. Org. Chem.* 2004, 3, 643;
- 12) Jin-Sheng Cheng et al. Redox approaches derived Tin (IV) oxide nanoparticles/graphene nanocomposites as the near-infrared absorber for selective human prostate cancer cells destruction. *Nano Biomed. Eng.*, 2012, 4(2), 76-82;
- 13) Jin-Sheng Cheng, Guo-Feng Wei, Shi-Wen Huang, Jin Zhao, Huan-Feng Jiang. Solvent-Controlled Chemoselective Palladium-Catalyzed Oligomerization of tert-butyl Acetylene. *J. Mol. Catal. A: Chemical*, 2007, 263, 169-174;
- 14) Jin-Sheng Cheng, Guo-Feng Wei, Zu-Liang Huang A Novel solvent-controlled chemoselective palladium/copper(II) halide catalyzed oligomerization of tert-butyl acetylene. *Res. Chem. Intermed.* 2007, 33, 579-587;
- 15) Jin-Sheng Cheng, Jinheng Li, et al. Trimerization of 1, 4-dichloro-2-butyne to 5-(1'-chlorovinyl)-1, 2, 3, 4, 5-pentachloromethylcyclopentadiene catalyzed by palladium chloride. *Syn. Commun.* 2003, 33(17), 3303;
- 16) Jin-Sheng Cheng, Guo-Feng Wei, Jin Zhao, Shi-Wen Huang, Zu-Liang Huang. A Selective and Recyclable Palladium Porphyrins Catalyzed Oligomerization of tert-butyl Acetylene in Environmental Friendly Ionic Liquids. *Res. Chem. Intermed.* 2006, 32, 887-894;
- 17) Jin-Sheng Cheng, Jin-Heng Li, Huan-Feng Jiang et al. The solvent effect on the chemoselectivity of palladium-catalyzed oligomerization of 3, 3-dimethyl-1-butyne. *Chin. Chem. Lett.* 2003, 14 (9), 966-968;
- 18) Jin-Sheng Cheng, Huan-Feng Jiang et al. A regioselective method for the synthesis of benzene derivatives: Palladium-catalyzed cyclotrimerization of ethyl propiolate. *Chin. J. Chem.*, 2003, 21 (3), 361-364;
- 19) Jin-Sheng Cheng, Huan-Feng Jiang et al. Transition metal catalyzed aromatization of alkynes. *Chin. J. Org. Chem.*, 2003, 23 (4), 313-320;
- 20) Shi-Wen Huang, Jin-Sheng Cheng, Li Qian, et al. Facile Microwave-Assisted Synthesis of Bis-Pyrazol Pyrimidin Derivatives Via N-alkylation Reaction. *Res. Chem. Intermed.* 2011, 37, 1, 1-9 (corresponding author) ;
- 21) Haixin Chang, Jinsheng Cheng, et al. Facile synthesis of wide-bandgap fluorinated graphene semiconductors. *Eur. Chem. J.*, 2011, 17, 8896-8903;
- 22) Xiaoli Dong, Jinsheng Cheng, et al. Graphene as a Novel Matrix for the Analysis of Small Molecules by MALDI-TOF MS. *Anal. Chem.* 2010, 82, 6208-6214;
- 23) Qiong Zeng, Jinsheng Cheng, et al. Self-Assembled Graphene-Enzyme Hierarchical Nanostructures for Electrochemical Biosensing. *Adv. Funct. Mater.* 2010, 20, 3366-3372;
- 24) Yan-Bo Luo, Jin-Sheng Cheng, Qiao Ma, Yu-Qi Feng, Jing-Hong Li. Graphene-polymer composite: extraction of polycyclic aromatic hydrocarbons from water samples by stir rod sorptive extraction. *Analytical Methods*, 2011, 3, 92-98;
- 25) Qiong Zeng, Jinsheng Cheng, et al. Palladium Nanoparticles/Chitosan-Grafted Graphene Nanocomposites for Construction of a Glucose Biosensor. *Biosens. Bioelec.*, 2011, 26: 3456-3463;
- 26) Yahong Zhou, Wei Guo, Jinsheng Cheng, Yang Liu, Jinghong Li, Lei Jiang. High-Temperature Gating of Solid-State Nanopores with Thermo-Responsive Macromolecular Nanoactuators in Ionic Liquids. *Adv. Mater.* 2012, 24(7), 962-967;
- 27) Xio-Jun Lv, Wen-Fu Fu, Hai-Xin Chang, Hao Zhang, Jin-Sheng Cheng, Gui-Ju Zhang, Yang Song, Chun-Yan Hu and Jing-Hong Li. Hydrogen evolution from water using semiconductor nanoparticle/graphene composite photocatalysts without noble metals. *J. Mater. Chem.*, 2012, 22, 1539-1546;
- 28) Jin-Sheng Cheng, Jing-Hong Li. Chitosan Functionalized Graphene Based Heterogeneous Catalysts for Regioselective

- [2+2+2] Cyclotrimerization Reaction. The Second Asian Symposium on Advanced Materials-Chemistry of Functional Materials (oral presentation). October 11-14, 2009, Shanghai China;
- 29) Shi-Wen Huang, Jin-Sheng Cheng, Hai-Feng Lu et al. Crystal structure of 2-(pyridinium-2-yl)quinoline-4-carboxylic acid nitrate, [C<sub>15</sub>H<sub>11</sub>N<sub>2</sub>O<sub>2</sub>][NO<sub>3</sub>]. Z. Kristallogr. NCS, 2010, 225, 555-556;
- 30) Guo-Feng Wei, Jin-Sheng Cheng. An Efficient Approach for Dihydroartemisinin In The Presence Of Phase Transfer Catalyst. Org. Chem. An Indian J. 2007, 3(2), 5-7 (corresponding author);
- 31) Longhua Tang, Hongbin Feng, Jinsheng Cheng, Jinghong Li, Uniform and Rich-Wrinkled Electrophoretic Deposited Graphene Film: A Robust Electrochemical Platform for TNT Sensing, Chem. Commun., 2010, 46, 5882-5884;
- 32) Jing-Ying Xu, Yuan-Yuan Su, Jin-Sheng Cheng, et al. Protective effects of fullereneol on carbon tetrachloride-induced acute hepatotoxicity and nephrotoxicity in rats, Carbon, 2010, 48, 1388;
- 33) Jing Zhang, Xiaoli Dong, Jinsheng Cheng. Efficient Analysis of Non-polar Environmental Contaminants by MALDI-TOF MS with Graphene as Matrix. J. Am. Soc. Mass Spectro. 2011, 22, 1294-1298;
- 34) Jing-Ying Xu, Kaiyu Han, Shu-Xia Li, Jin-Sheng Cheng, et al. Pulmonary responses to polyhydroxylated fullereneols. J. Appl. Toxicol. 2009, 29, 578-584;
- 35) Qunjiang Zhang, Junhua Sun, Huan-Feng Jiang, Xiaoyue Ouyang, Jin-Sheng Cheng. Palladium-catalyzed addition of carbon monoxide and carbon tetrachloride to 1-octene in supercritical carbon dioxide. Chin. J. Chem., 2003, 21 (11), 1525-1527;
- 36) Qunjiang Zhang, Jinheng Li, Jin-Sheng Cheng, et al. Fe(0)-catalyzed radical cyclization reaction of allyl trichloroacetate. Chin. J. Org. Chem., 2002, 22 (12), 1044-1046;
- 37) Xiaoyue Ouyang, Huan-Feng Jiang, Jin-Sheng Cheng, et al. Aerobic oxidation of methyl vinyl ketone in supercritical carbon dioxide. Chin. J. Chem., 2002, 20 (11), 1326-1329;
- 38) Qunjiang Zhang, Jinheng Li, Jin-Sheng Cheng, et al. Recent progress in the radical cyclization of olefins. Chin. J. Org. Chem., 2002, 22 (9), 617-623;
- 39) Qunjiang Zhang, Junhua Sun, Jinheng Li, Jin-Sheng Cheng. One-step synthesis of R<sub>1</sub>CCl<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>R<sub>1</sub> from R<sub>1</sub>CCl<sub>3</sub> and CH<sub>2</sub>=CHR<sub>1</sub>. Chin. J. Org. Chem. 2003, 23, 697-700;

### Books

- 1) Jin Zhao, Jinsheng Cheng. 《Chiral Carbohydrate Building Block》 (Guangxi Scientific Press, May, 2007, ISBN: 978-7-80666-332-5);
- 2) Jinsheng Cheng. 《Organic Chemistry》 (Xiang Tan University Press, Aug. 2008, ISBN: 978-7-81128-042-5 ) ;
- 3) Jinsheng Cheng. 《Inorganic Chemistry》 (Nanjing University Press, Jun. 2010, 978-7-305-06977-2);
- 4) Jinsheng Cheng, Haoyuan Zou. 《Hakka health food》 (China Medical Science and Technology Press, 2014, ISBN 978-7-5067-6660-3) ;
- 5) Jinsheng Cheng, Wenbin Chen. 《Hakka Chinese herbal medicine illustrated and folk formulae》 (China Medical Science and Technology Press, 2016, ISBN 978-7-5067-8647-8) ;

### Patents (selected)

- 1) Jinsheng Cheng. Method for stepwise separating amino acid active ingredients of *Camellia Nitidissima* Chi (US Patent, NO. 14948249, granted);
- 2) Jinsheng Cheng. Method for preparing a *Camellia Nitidissima* Chi lipid-lowering and Hypoglycemic agent (US Patent, NO. 14940160, granted);
- 3) Jinsheng Cheng. Extraction separation method of a flavone component based on graphene (US Patent, NO. 14948248, granted);
- 4) Jinsheng Cheng. Drug sustained release agent based on oleanolic acid and a preparation method thereof (US Patent, NO. 14948249, granted);

14948242);

5) Jinsheng Cheng. Method for separating flavonoid substances in *Camellia Nitidissima* Chi Based on a magnetic nanoparticles-PAMAM nano composites (US Patent, NO. 14938855);

6) Jinsheng Cheng. Drug releasing agent based on beta-sitosterol and a preparation method thereof (US Patent, NO. 14948250);

7) Jinsheng Cheng. Multi-stage medical sewage sterilization device and method based on graphene nano technologies (US Patent, NO. 16177414);

8) Jinsheng Cheng. Drinking Water Filtration Device and Filtration Method based on Graphene Technologies (US Patent, NO. 16177414);

9) Jinsheng Cheng. Kit for rapidly detecting nitrite content in foods such as bird's nest and detection method thereof (Chinese Patent, CN102507564A, granted) ;

10) Jinsheng Cheng. Method for enriching and separating metal elements in golden flower tea based on composite nanofiltration membrane (Chinese Patent, CN 104472771A, granted) ;

11) Jinsheng Cheng. Test method for detecting polyphenols and flavonoids in Camellia tea (Chinese Patent, CN 104458975 A, granted) ;

12) Jinsheng Cheng. Method for detecting volatile component of golden flower tea (Chinese Patent, CN 104458939 A, granted)

**\*\*\*\*\*All the columns need to be filled in.**