

Curriculum Vitae
Xueji Zhang Ph.D.

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World Precision Instruments, Inc.
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Sarasota, FL34238, USA
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Education

Sept. 2003-July 2006 Sloan School of Management, MIT, Executive Management Class
June 1998-May 1999 Department of Chemistry and Biochemistry, New Mexico State University, Las Cruces, USA, Postdoctoral Fellow
May 1997-June 1998 Center of Chemical Sensors, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, Postdoctoral Fellow on W. Simon Fellowship to ICSC-World Laboratory.
Nov.1995- April 1997 National Institute of Chemistry, Ljubljana, Slovenia, Postdoctoral Fellow
Sept. 1989- July 1994 Wuhan University/Swiss Federal Institute of Technology, Ph.D. Analytical Chemistry
July 1989 Department of Chemistry, Wuhan University, P.R. China, B.Sc. with honor

Work Experience & Other Qualifications

Jan. 2013- Present Professor, Dean, School of Chemistry and Biological Engineering, University of Science and Technology, Beijing, China
March 2011-March 2015 Dean, School of Environmental and Biological Engineering, Nanjing University of Science & Technology, P.R. China
Oct. 2009-Present National Chair Professor, Director, Research Center of Bioengineering and Sensing Technology, University of Science and Technology, Beijing, China
2008-Present Adjunct Professor and Deputy Director, Clinical Biochemistry Department, Chinese PLA General Hospital, Beijing, China
2007-Present Guest Professor, Chinese Academy of Sciences
Jan. 2004-May 2016 Senior Vice President of Science World Precision Instruments, Inc., (US headquarter), Sarasota, FL, (take charge of R&D, coordinate production, sales, marketing, technical support)
March 2006-present Courtesy Professor, Department of Chemistry, University of South Florida, Tampa, FL, (<http://chemistry.usf.edu/faculty/xzhang/>)
Jan 2002-March 2006 Courtesy Associate Professor, Department of Chemistry, University of South Florida, Tampa, FL
July 2003 Department of Chemistry, Oklahoma State University, Associate Professor (declined)
Jan 2003-Dec.2003 Vice President & Principal Scientist World Precision Instruments, Inc., (US headquarter), Sarasota, FL
Oct. 2001-Jan. 2003 Head of Chemistry Department, World Precision Instruments, Inc., (US headquarter), Sarasota, FL
July 2000-Oct. 2001 Principal Scientist, World Precision Instruments, Inc., (US headquarter), Sarasota, FL
May 1999-July 2000 Senior Scientist, World Precision Instruments, Inc., (US headquarter), Sarasota, FL
July 1994-Oct. 1995 Assistant Professor (Lecturer), Department of Chemistry, Wuhan University, China

Sept. 1989- June 1994 Teaching Assistant,
 Department of Chemistry, Wuhan University, China
 July 1981-Sept. 1987 Technician, Assistant Engineer,
 Huainan Institute of Coal Chemical Engineering, China

Major Professional Societies

- Fellow of American Institute for Medical & Biological Engineering
- Fellow of the Royal Society of Chemistry
- Fellow of Chinese Chemical Society
- Member of American Chemical Society
- Member of American Association for the Advancement of Science
- Member of the Society of Free Radical Biology and Medicine
- Life Member of Electroanalytical Chemistry Society
- Active Member of New York Academy of Sciences
- Member of the Society for Neuroscience
- Member of American Diabetes Association

Awards Received in total over 30 awards, including

2016	Extraordinary Scholar at USTB
2016	Fellow of American Institute for Medical & Biological Engineering
2016	Outstanding Engineer in China
2015	Scientist of the Year in China, 2015
2014	Fellow of Royal Society of Chemistry
2014	Fellow of Chinese Chemical Society
2014	The Best Mentor of USTB 2014
2013	Member of Russian Academy of Engineering
2012	Professor of the Year, USTB
2010	Membership of Cambridge Who's Who of Distinguished Individuals
2009	National Chair Professorship by Central Government of P.R. China (the highest rank in China)
2009	Outstanding overseas Chinese by World Chinese Association
2007	GCAA Career Award, Gulf Coast Chinese American Association
1999-2009	Scientist of Year, World Precision Instruments Inc
2003	International Scientist of the Year by International Biographical Center Cambridge, England
1999	recognized as Extraordinary Scientist at New Mexico State University by INS.
1997	Outstanding Overseas Chinese Scholar, Switzerland
1996	W.Simon Fellowship at ICSC-World Laboratory, Geneva, Switzerland
1994	The First Prize of the National Applied Science and Technology and Invent for All College Students, Graduates and PhD Candidate in China. (Only 4 Awards in China)
1994	The first Prize of Scientific papers in Hubei Province, China
1993	Shao Yizhou Memorial Award in China
1992	Zheng Zaolen Scholarship at Wuhan University
1989	College Student's Science and Technology Achievement, Hubei Province.
1988	Anhui Province Award of Science and Development
1987-1994	Student of Year at Wuhan University
1986	Anhui Province Award of Science and Development

Editorial board

- Co-Editor-in-Chief of American Journal of Biomedical Sciences(www.nwpii.com/ajbms)
- Associate editor of Frontiers in Bioscience(www.bioscience.org)
- Associate Editor of Archives of Medical Science(www.ArchivesofMedicalScience.com)
- Associate Editor of Nano-Bio-Analysis (www.nwpii.com/nba)
- Editor of Nature Reviews Clinical Oncology (Chinese Edition) www.nature.com/reviewes

- Member of editorial board of American Journal of Biomedical Sciences(www.nwpii.com/ajbms)
- Member of editorial board of Frontiers in Bioscience (www.bioscience.org)
- Member of international editorial board of international journal SENSORS (www.mdpi.org/sensors)
- Member of editorial board of Archives of Medical Science(www.ArchivesofMedicalScience.com)
- Guest Editor of SENSORS
- Member of editorial board of Medical Science Monitor (www.medscimonit.com)
- Member of editorial board of Scientific Research and Essays (<http://www.academicjournals.org/sre>)
- Member of editorial board of Research & Reviews in Electrochemistry(www.tsijournals.com/RREChem)
- Member of editorial board of The Open Electrochemistry Journal (bentham.org/open/toelecj/index.htm)
- Member of editorial board of Recent Patents on Corrosion Science (<http://www.bentham.org/open/rptcs/EBM.htm>)
- Member of editorial board of Sensors & Transducers (http://www.sensorsportal.com/HTML/DIGEST/Editorial_board.htm)
- Member of editorial board of International Journal of Electrochemistry, (<http://www.sage-hindawi.com/journals/ijelc/editors.html>)
- Member of editorial board of Chemical Sensors, (<http://www.simplex-academic-publishers.com/chemsen.aspx>)
- Member of editorial board of Acta Biophysica Sinica, (<http://www.cjb.org.cn/CN/column/item109.shtml>)
- Editor of book Electrochemical Sensors, Biosensors and Their Biomedical Applications Elsevier, 2008

Service

- Peer Reviewer for international journals:
Nature, Science, Angewandte Chemie; JACS; Chemical Review, Chem. Commun. Anal. Chem.; Electroanalysis; Analyst; Anal. Lett.; Anal. Chim. Acta; Mikrochim. Acta; Talanta; SENSORS; Frontiers in Bioscience; Electrochim. Acta, Biomacromolecules; Cell Biology International; Medical Science Monitor; Biosensors and Bioelectronics; Biomaterials; Bioelectrochemistry; Langmuri; J. of Nanosci. Nanotech; IEEE-Sensors Journal; Nitric Oxide; Free Radical Biology & Medicine; Marine Chemistry; Electrophoresis; Electrochemistry Communications, Brain Research, Journal Biological Inorganic Chemistry, Analytical and Bioanalytical Chemistry, Journal of Electroanal. Chem., Journal of Biomedical Materials Research: Part A, Colloids and Surfaces B: Biointerfaces, Advanced Functional Materials ; Journal of Physical Chemistry B; Materials Chemistry and Physics; Neurochemical Research, Cancer Lett; International Journal of Cancer; Clinical Chemistry, Anal. Biochem; Clinica Chimica Acta, Sensors & Actuators B, Small, European Journal. of Chemistry; Physical Chemistry Chemical Physics, Chemistry, An Asian Journal; Journal of Applied Chemistry; Free Radical Research, Advanced Materials; Food Chemistry, ACS Nano, Journal of Materials Chemistry, Cancer Biotherapy & Radiopharmaceuticals
- Scientific advisory board of International Symposium on Sensors Science (I3S 2003), Paris, June, 2003
- Member of international organization committee of 3rd Conference on Mitochondrial Physiology, Schrocken, Vorarlberg, Austria, September, 2003
- Member of Organizing Committee of International Symposium on Sensors Science (I3S 2004), Nanjing, China, June 2004
- Member of Scientific Advisory Board of International Symposium on Sensors Science (I3S 2004), Nanjing, China, June 2004
- Member of Organizing Committee, 14th Biennial Congress Society for Free Radical Research - International, Beijing, China, Oct 18-22nd, 2008
- Committee member of Chinese Free Radical Society
- Committee member of Chinese Clinical Applied Biochemistry Association
- Committee member of national Key lab of life Analytical Chemistry Nanjing University
- NSF, NIH Grants Review Panel
- Peer Reviewer of Singapore National Scientific Award.
- Member Technical Expert Panel, the National Research Foundation Board of Singapore
- Member of Oversea Expert Panel for key research project, National Science Foundation of China
- Proposal's reviewer of American Chemical Society Petroleum Research Fund
- President, Gulf Coast Chinese American Association
- Chairman of board of directors, Sarasota Chinese Academy
- Member of Scientific Adviser board, Nano-center, University of South Florida

Teaching

Jan. 2010-present	Introduction of Chemical Sensors and Biosensors for undergraduate students, School of Chemistry & Biological Engineering, University of Science & Technology, Beijing
Jan. 2001- present	yearly training course on Chemical sensors, biosensors and biosensing detection system World Precision Instruments, Inc
Aug. 2004- present	Instrumental Analysis Department of Chemistry, University of South Florida
Sept. 1994- Oct. 1995	Teaching Analytical Chemistry, Instrumental Analysis for undergraduate students; teaching Electroanalytical Chemistry for graduate students, Wuhan University Switzerland, Postdoctoral Fellow on W. Simon Fellowship to ICSC-World Laboratory
Sept. 1989-June 1994	Teaching assistant, Department of Chemistry, Wuhan University

Research Funding

Pending:

- Controlled Release of Topical Nitric Oxide for Treating Cutaneous Injuries in Battle Fields (DOD)
PI Xueji Zhang
- Gold-Nanoparticle Based Devices for Detecting the Thiol and S-Nitrosothiol Proteomes (NSF).
PI: Xueji Zhang
- Implantable glucose sensor based on nano-bio-engineering materials. (NIH).
PI: Xueji Zhang
- The Development of Novel Homocysteine biosensor for medical research (NIH).
PI: Xueji Zhang

Current:

- Integration of microfluid chip and nuclei masspec and its application for precision cancer diagnostic, National key project, MOST(2016- 7-2018.12) 24 M Yuan. PI: Xueji Zhang
- microRNA regulates Cancer cells treated by As₂O₃, (01-2015-12-2018) , NSFC, 1 M, PI: Xueji Zhang
- Nano functional materials and sensing device, (2014.1-2018.12) Minister of Education Fund, 4.5 M , Co-PI
- MicroRNA detection based on novel nanodevice, Beijing Science and Technology Committee fund, 500 K, PI
- Nano-selective and sensitive NO probes for single cell monitoring (01-2013-12-2016) 800KYUAN National Natural Science Foundation of China.
PI; Xueji Zhang
- High resolution Scanning Electrochemical Microscopy(01-2012-12-2015) 4 million YUAN(\$600 K) National Science Foundation of China.
PI: Xueji Zhang
- 1000 Chinese Elites Program (07-2011-06-2016) Total 20 million YUAN (~\$3 million), Supported by Chinese Central Government.
PI: Xueji Zhang
- National Key Project on Biosensing Platform(01-2010-12-2014) Total 20 million YUAN (~\$3 million).
PI: Xueji Zhang
- Functional Materials and Sensing devices, (01-2011-21-31.2015).
Co-PI
- A NO detection system for clinical trial. Contract from New York Biomedical Inc. (11-01-2008-12-31-2010).
PI: Xueji Zhang
- Ultramicrosensors and Biomedical Sensors for Space Shuttle. European Space Agency, (01-01-2007-12-31-2009).
Co-PI: Xueji Zhang
- Micro hydrogen sulfide sensor for clinical application R&D fund from Akria. (02-01-2008-12-31-2009).
PI: Xueji Zhang

Completed:

- Portable Free Radical Detection System, R&D Funds from WPI,(01-01-2006 to 12-31-2008).
PI: Xueji Zhang
- Electrochemical measurement of homocysteine for clinical application.R&D Funds from WPI,(01-01-2006 to 12-31-2008) Cooperation with Formosa Plastics Company.
PI: Xueji Zhang
- New generation of NO sensors with pM detection limit based on Nanotechnology, R&D Funds from WPI,(07-01-2006 to 12-31-2008).
PI: Xueji Zhang
- Apollo-4000 System, R&D Funds from WPI, (10-1-2001 to 9-30-2006).
PI: Xueji Zhang
- Novel electrochemical detector with nanoliter dead volume for HPLC, (Jan. 2004-Dec. 2005).
Co-PI: Xueji Zhang
- Electrochemical Measurement of S-Nitrosothiols, NIH grant5R44GM062077-03, Phase II,(4-01-03 to 3-31-2004).
PI: Xueji Zhang
- Electrochemical Measurement of S-Nitrosothiols, NIH grant5R44GM062077-02, Phase II,(4-01-04 to 3-31-2005).
PI: Xueji Zhang
- Electrochemical Measurement of S-Nitrosothiols, NIH grant1R43GM062077-01, Phase I, (10-01-00 to 3-31-2001).
PI: Xueji Zhang
- New generation nitric oxide electrochemical sensors, R&D Funds from WPI, (01-01-2000 to 12-31-2002).
PI: Xueji Zhang
- Nanometer Sized Ultramicroelectrodes and Their Application for Single Cell Measurements,National Natural Science Foundation of China, (1994-1997).
PI: Xueji Zhang
- Novel New Ion-Selective Microelectrodes, Researchfund from ICSC-WORLD Laboratory(05-01-1997 to 04-30-1998).
PI: Xueji Zhang
- High Resolution Oxygen Sensor, R&D fund from Oxygraph, (12-01 2002 to 05-01-2003).
PI: Xueji Zhang
- Co-investigator with Professors Joseph Wang, Usular Spichger, Bozidar Ogorevc on NIH RO1, Swiss Science Foundation, NATO for Biosensors.

Publications

A) Patents

1. Nanometer-sized ultramicroelectrodes and ultramicrosensors, Xueji Zhang, Wumig Zhang, Xingyao Zhou, Chinese Invent Patent, ZL 94 1 04755.5.International Patent Catalogue No: G01N 27/30.
2. Methods and apparatus for therapeutic treatment of respiratory, cardiac, and other pathologies, Harry Fein, Xueji Zhang, US Patent 6,749,834, Date of Patent: June 15, 2004.
3. Microsensors for glucose and insulin monitoring, Joseph Wang, Xueji Zhang, Fang Lu, US patent, No. 6,893,552, Date of patent: May 17, 2005.
4. Methods and apparatus for therapeutic treatment of respiratory, cardiac, and other pathologies, Harry Fein, Xueji Zhang, GB2414183 Nov. 23, 2005.
5. Methods and devices for therapeutic treatment of cardiac and other pathologies, Harry Fein, Xueji Zhang,PCT Int. Appl.(2004),30 pp.CODEN: PIXXD2WO2004054432A220040701.
6. Nitric oxide sensor, Xueji Zhang,US Patent application serialNo. 09/546,488 (filed on April 10, 2002).
7. Methods and apparatus for therapeutic treatment of respiratory, cardiac, and other pathologies, Harry Fein, Xueji Zhang, US Patent Pub No. US2004/0197274 AL, Pub Date: Oct. 7, 2004.
8. Needle-type dual microsensor for the simultaneous monitoring of glucose and insulin, Joseph Wang, Xueji Zhang, US patent application serial No 60/267,811.(Attorney docket No.37000-0103).
9. Method for measurement of S-nitrosothiols using HPLC coupled with electrochemical nitric oxide detector,

- Xueji Zhang, Victor Daley-USmar, US provisional patent.
10. A sensor for measurement of hydrogen sulfide, Xueji Zhang, David Kraus, Patent WO2006047086, EP20050808453, publication date: 07/25/2007.
 11. Novel Hydrogen sulfide electrochemical sensor with low nanomolar detection limit for biomedical research, Xueji Zhang, David, Kraus, US Provisional patent.
 12. Enzymatic method for detecting a sulfur containing amino acid using an electrochemical sensor, Xueji Zhang, Dong Zhao, Tsan Zon Liu, E.C. Chan, USpatent 20080164156, July10,2008.
 13. Gold-Nanoparticle Based Devices for Detecting the ThiolandS-Nitrosothiol Proteomes, Xueji Zhang, Bulent Mutus, US Provisional patent, May, 18, 2009.
 14. Isolation and Analysis of thiol protein matter using gold nanaoparticles, Xueji Zhang, Bulent Mutus, WO/2011/038375.
 15. Control release of topical nitric oxide for treating cutaneous injuries, Bulent Mutus, Arthur Jarosz, Adam Faccenda, Xueji Zhang, US Provisional patent, Nov 29th, 2010.
 16. Anionselectors mass spectrometer, Xueji Zhang, Qinwei Ma, H Zhou, Chinese patent, CN203367221U
 17. Metal-like sliderails for automatically turning offthe high-voltage when MALDI-TOF sample is changed, Xueji Zhang, Qinwei, Ma, Shuhui Fu, Chinese patent, CN203351551U
 18. Ahigh-voltagepulse generator for mass spectrometer, Xueji Zhang, Qinwei, Ma, Shuhui Fu, Chinese patent, CN203351549U
 19. An apparatus for introducing MALDI laser source and the sample imaging, Xueji Zhang, Qinwei Ma, Lianlian Chen, Chinese patent, CN203300593U
 20. An imaging methodof Latent Fingerprints employing A protein-protected gold nanoclustersfluorescence, Meiqin Zhang, Yu Zhu, Shouliang Liu, Xi Yu, Meiqin Wang, Qianhui Wei, Xueji Zhang, Chinese patent, CN103431867A
 21. An imaging methodof Latent Fingerprints on metal surface by chemical deposition, Meiqin Zhang, Gang Qin, Yu Zhu, Xi Yu, Meiqin Wang, Qianhui Wei, Xueji Zhang, Chinese patent, CN103356199A
 22. A SNP primersystem for detection of gene related to hereditarydeafnessassociated and its application, Xueji Zhang, Qinwei Ma, Yan Zhang, Hongbin Zhao, Chinese patent,CN103276065A
 23. Mass spectrometer modelandconstruction methodfor detection of cariesprotein, Xueji Zhang, Qinwei Ma, Yan Li, Xiaofei Liu, Yan Lin, Chinese patent, CN103483442A
 24. Preparationmethodbased on16S rDNAbacterialnucleic acidcharacteristicspectralfingerprintofits application, Xueji Zhang, Qinwei Ma, Hongbin Zhao, Haiyan Zhang, Yanmei Zhao, Chinese patent, CN103361418A
 25. Fiber membranes made by electrospinningtheaptamermodifiedpolymer and their applications incontrolled release, Yongqiangwen, Wanyuan Gui, Wenqian Wang, Yanshen Li, Xiangyu Jiao, Na Zhao, Xueji Zhan, , Chinese patent, CN 201310712073.9
 26. A protein-protected gold nanoclustersfluorescencemethodof Latent Fingerprints, Meiqin Zhang, Yu Zhu, Shouliang Liu, Meilin Wang, Qianhui Wei, Xueji Zhang, CN 2013103646
 27. Nnucleic acidmodified manofiber optic sensor , Yongqiangwen, Xiangyu Jiao , Wenqian Wang, Yanshen Li, Wanyuan Gui, , Na Zhao, Xueji Zhan, , Chinese patent, CN103644845A
 28. A method for identification of free DNAin serumby mass spectrometry , related kit and application, Xueji Zhang, Qiwei Ma, Haiyan Zhang, Yan Lin, Chinese patent, CN103602740A
 29. Detection of cysteamine in serum based onsilvernanoclustersfluorescence, Lei Su, Feng Xue, Tong Su, Xueji Zhang, Chinese patent, CN103630521A
 30. AK-rasgene mutationnucleic acidMS preparation methodfor the detectionof colorectal cancerand related products, , Xueji Zhang, Qiwei Ma, Hongbin Zhao, Haiyan Zhang, Yan Lin, Chinese patent, CN103667490A
 31. MSmodelandmethod for detectingcariesproteins, , Xueji Zhang, Qiwei Ma, Yan Li, Xiaofei Liu, Yan Lin, Yan Lin, Chinese patent, CN103483442A
 32. A method for preparation ofbacterialnucleic acidfingerprintingcharacteristicspectral library, Xueji Zhang, Qinwei Ma, Hongbin Zhao, Haiyan Zhang, Yanmei Zhao, Chinese patent, CN103352257B
 33. A fabrication method for Heavy metalsensors using a multi-stage structure photoniccrystal film, Xueji Zhang, Shaojia Liu, Wenqian Wang, Yongqiang Wen, Chinese patent, CN103257123A
 34. A method for making a medical patch, Xueji Zhang, Youyu Yao, Chinese patent, CN103768567A

35. A method for preparing poly luteolin antimicrobial coating and related testing procedure, Lei Su, Jinya Chen, Miao Guan, Xueji Zhang, Chinese patent, CN103819954A
36. A high resolution latent fingerprint image acquisition method based on scanning electrochemical microscopy, Xueji Zhang, Wenjin Wu, Ting Zhang, Yu Zhu, Meiqin Zhang, Chinese Patent, CN 103598890A
37. A method for preparation of Bacterial Nucleic acid fingerprint library, Xueji Zhang, Qinwei ma, Haiyan Zhang, Chinese Patent, CN 102851747B
38. Maldi-TOF Mass Spectrometry double internal standard and quantitative detection method, Xueji Zhang, Qinwei ma, Haiyan Zhang, Shuangyan Xin, Chinese Patent, CN 102337341B
39. A mass spectroscopy model for detection of special protein related to Type I Diabetes, Xueji Zhang, Qinwei ma, Rulei Yin, Xiaohui Hu, Jin Ren, Chinese Patent, CN 102323365B
40. Primer system for the detection of genes associated with hereditary deafness SNP and its application, Xueji Zhang, Qinwei ma, Haiyan Zhang, Hongbin Zhao Chinese Patent, CN 103352073B
41. Convert the aptamer-modified polymer into fiber membrane by electrospinning and its application for controlled release, Yongqiang Wen, Wanyuan Gui, Wenqian Wang, Yansheng Li, Xiangyu Jiao, Na Zhao, Xueji Zhang, Chinese Patent, CN 103705438A
42. Apparatus for the controlled release of tropical nitric oxide, Mutus Bulent, Artur Jarosz, Adam Faccenda, Xueji Zhang, US patent, US2014/0296773A1

B) Articles in journals/contributions to books

1. Xd Meng, Z.D. Liu, y Cao, WH Dai, K Zhang, HF Dong, XY Feng, XJ Zhang, Fabrication Aptamer-conjugated Pegylated –MoS₂/Cu_{1.8}S theranostic nanoplatform for multiplexed imaging diagnosis and chemo-photothermal therapy of Cancer, *Adv. Funct. Mater.* 2017. (in press)
2. T Xu, W Shi, J Huang, Y Song, F Zhang, LP Xu, X Zhang, S Wang, Superwetable microchips as a platform towards microgravity biosensing, *ACS Nano*, 2017
3. Y Cao, H Dong, Z yang, Z Zhong, Y Chen, W Dai, XJ Zhang, Aptamer-conjugated graphene quantumdots/porphyrin derivative theranostic agent for intracellular cancer-related MicroRNA detetion and fluorescence-guided photothermal/photodynamic synergetic therapy, *ACS Applied materials & interfaces*, 2017,
4. K Zhang, H Dong, W Dai, X Meng, H Lu, T Wu, X J Zhang, Fabricating PT/Sn-In₂O₃ nanoflower with Advanced oxygen reduction reaction performance for high-sensitive microRNA electrocehmicl detection, *Anal. Chem.* 2017
5. T Xu, W Gao, LP Xu, X Zhang, S Wang, Fuel Free Synthetic micro/nanomachines, *Adv. Mater.* 2017
6. K Hao, Y He, H Lu, S Pu, Y Zhang, HF Dong, XJ Zhang, Highly-selective surface plasmon resonance microRNA biosensor based on streptavidin functionalized gold nanorods assisted signal amplification, *Anal Chim. Acta*, 2017,964,114-120
7. Q.Hu, B Zhou, P Dang, L Li, J Kong, XJ Zhang, Facile Colorimetric assay of alkline phosphatase activity using Fe(II)-phenanthroline reporter, *Anal Chim. Acta*, 2017,964,170-177
8. M Zhang, Y Ou, X Du, X Li, H Huang, Y Wen, XJ Zhang, Systematic study of dye loaded small mesoporous silica nanoparticles for detecting latent fingerprints on various substrates, *Journal of Porous materials*, 2017,24, 13-20
9. X Du, C Zhao, X Li, H Huang, Y Wen, X Zhang, J Li, Novel yolk-shell polymer/carbon@Au nanocomposites by using endrimer-like mesoporous silica nanoparticles as hard template, *Journal of Alloys and Compounds*, 2017
10. Hu Q, He M, Mei Y, Feng W, Jing S, Kong J, et al. Sensitive and selective colorimetric assay of alkaline phosphatase activity with Cu(II)-phenanthroline complex. *Talanta*. 2017;163:146-52.
11. Zhu Z, Chen Y, Shi G, Zhang X. Selenium delays tomato fruit ripening by inhibiting ethylene biosynthesis and enhancing the antioxidant defense system. *Food Chemistry*. 2017;219:179-84.
12. F Xu, H Dong, Y Cao, H Lu, X Meng, W Dai, X Zhang, Ultrasensitive and multiple disease-related microRNA detection based on tetrahedral DNA nanostructures and duplex-specific nuclease-assisted signal amplification, *ACS Applied materials & interfaces*, 2016, 8(40),33499-33505

13. K Zhang, C Feng, B he, H Dong, W Dai, H Lu, XJ Zhang, An advanced electrocatalytic of PT decorated SnO₂/C nanofibers for oxygen reduction reaction, *J of Electroanal. Chem.* 2016, 781,198-203
14. Cai W-R, Zhang G-Y, Song T, Zhang X-J, Shan D. Cobalt hexacyanoferrate electrodeposited on electrode with the assistance of laponite: The enhanced electrochemical sensing of captopril. *Electrochimica Acta.* 2016;198:32-9.
15. Dong H, Tang S, Hao Y, Yu H, Dai W, Zhao G, et al. Fluorescent MoS₂ Quantum Dots: Ultrasonic Preparation, Up-Conversion and Down-Conversion Bioimaging, and Photodynamic Therapy. *Acs Applied Materials & Interfaces.* 2016;8:3107-14.
16. Du L, Suo S, Zhang H, Jia H, Liu KJ, Zhang XJ, et al. The alternative strategy for designing covalent drugs through kinetic effects of pi-stacking on the self-assembled nanoparticles: a model study with antibiotics. *Nanotechnology.* 2016;27.
17. Du X, Li X, Xiong L, Zhang X, Kleitz F, Qiao SZ. Mesoporous silica nanoparticles with organo-bridged silsesquioxane framework as innovative platforms for bioimaging and therapeutic agent delivery. *Biomaterials.* 2016;91:90-127.
18. Du X, Xing Y, Li X, Huang H, Geng Z, He J, et al. Broadband antireflective superhydrophobic self-cleaning coatings based on novel dendritic porous particles. *Rsc Advances.* 2016;6:7864-71.
19. Du X, Zhao C, Huang H, Wen Y, Zhang X. Synthesis of Dendrimer-Like Porous Silica Nanoparticles and Their Applications in Advanced Carrier. *Progress in Chemistry.* 2016;28:1131-47.
20. Du X, Zhao C, Zhou M, Ma T, Huang H, Jaroniec M, et al. Hollow Carbon Nanospheres with Tunable Hierarchical Pores for Drug, Gene, and Photothermal Synergistic Treatment. *Small (Weinheim an der Bergstrasse, Germany).* 2016.
21. Gao B, Su L, Yang H, Shu T, Zhang X. Current control by electrode coatings formed by polymerization of dopamine at prussian blue-modified electrodes. *Analyst.* 2016;141:2067-71.
22. Gao X, Xu L-P, Wu T, Wen Y, Ma X, Zhang X. An enzyme-amplified lateral flow strip biosensor for visual detection of MicroRNA-224. *Talanta.* 2016;146:648-54.
23. He S-J, Shu L-P, Zhou Z-W, Yang T, Duan W, Zhang X, et al. Inhibition of Aurora kinases induces apoptosis and autophagy via AURKB/p70S6K/RPL15 axis in human leukemia cells. *Cancer Letters.* 2016;382:215-30.
24. Hu L, Yan X-W, Yao C-G, Deng S-Y, Gao X-M, Zhang X-J, et al. Preparation of amidoximated coaxial electrospun nanofibers for uranyl uptake and their electrochemical properties. *Separation and Purification Technology.* 2016;171:44-51.
25. Hu Q, Kong J, Li Y, Zhang X. A signal-on electrochemical DNA biosensor based on potential-assisted Cu(I)-catalyzed azide-alkyne cycloaddition mediated labeling of hairpin-like oligonucleotide with electroactive probe. *Talanta.* 2016;147:516-22.
26. Hu Q, Zhou B, Li F, Kong J, Zhang X. Turn-On Colorimetric Platform for Dual Activity Detection of Acid and Alkaline Phosphatase in Human Whole Blood. *Chemistry-an Asian Journal.* 2016;11:3040-5.
27. Huang Y, Wang W, Wu T, Xu L-P, Wen Y, Zhang X. A three-line lateral flow biosensor for logic detection of microRNA based on Y-shaped junction DNA and target recycling amplification. *Analytical and Bioanalytical Chemistry.* 2016;408:8195-202.
28. Jiao X, Li Y, Li F, Wang W, Wen Y, Song Y, et al. pH-Responsive nano sensing valve with self-monitoring state property based on hydrophobicity switching. *Rsc Advances.* 2016;6:52292-9.
29. Kalwar K, Sun W-X, Li D-L, Zhang X-J, Shan D. Coaxial electrospinning of polycaprolactone@chitosan: Characterization and silver nanoparticles incorporation for antibacterial activity. *Reactive & Functional Polymers.* 2016;107:87-92.
30. Li Y, Cheng Y, Xu L, Du H, Zhang P, Wen Y, et al. A Nanostructured SERS Switch Based on Molecular Beacon-Controlled Assembly of Gold Nanoparticles. *Nanomaterials.* 2016;6.
31. Li Y, Du H, Wang W, Zhang P, Xu L, Wen Y, et al. A Versatile Multiple Target Detection System Based on DNA Nano-assembled Linear FRET Arrays (vol 6, 26879, 2016). *Scientific Reports.* 2016;6.
32. Li Y, Zhang L, Liu J, Zhou S-F, Al-Ghanim KA, Mahboob S, et al. A novel sensitive and selective electrochemical sensor based on molecularly imprinted polymer on a nanoporous gold leaf modified electrode for warfarin sodium determination. *Rsc Advances.* 2016;6:43724-31.
33. Liang H, Ma X, Yang Z, Wang P, Zhang X, Ren Z, et al. Emergence of superconductivity in doped glassy-carbon. *Carbon.* 2016;99:585-90.

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62. A biomimic enzyme modified electrode for H₂O₂ highly sensitive detection, Analyst, 2015
63. Antibacterial Polydopamine Coatings, Advanced Healthcare Materials, 2015
64. Capillary-Driven Spontaneous Oil/Water Separation by Superwetable Twine, Nanoscale, 2015
65. Magnetic Zirconium Hexacyanoferrate(II) Nanoparticle as Tracing Tag for Electrochemical DNA Assay, Anal. Chem, 2015
66. A Facile Graphene Nanosheets-based Electrochemical Sensor for Sensitive Detection of Honokiol in Traditional Chinese Medicine, Electroanalysis, 2015
67. Methyl orange removal by a novel PEI-AuNPs-hemin nanocomposite, New Journal of Chemistry, 2015
68. Novel targeting of PEGylated liposomes for codelivery of TGF- β 1 siRNA and four antitubercular drugs to human macrophages for the treatment of mycobacterial infection: a quantitative proteomic study, Drug

- Design, Development and Therapy, 2015
69. An Advanced Electrocatalyst of Pt Decorated SnO₂/C Nanofibers for Oxygen Reduction Reaction, ACS Catalyst, 2015
 70. Mesoporous silica nanoparticles with organo-bridged silsesquioxane framework as innovative platforms for bioimaging and therapeutic agent delivery, Chemical Society Reviews, 2015
 71. Ultratrace DNA Detection Based on the Condensing-Enrichment Effect of Superwetable Microchips, Adv. Mater. 2015
 72. Detection of Zinc Finger Protein (EGR1) Based on Electrogenated Chemiluminescence from Singlet Oxygen Produced in a Nanoclay-Supported Porphyrin Environment, Deng, Shengyuan; Zhang, Tingting; Ji, Xubo; Wan, Ying; Xin, Peng; Shan, Dan; Zhang, Xueji, Anal. Chem. 2015
 73. Carbon Nanodot-Tethered Gold Nanoclusters as a Ratiometric Fluorescent Switch for Dual Sensing of Cadmium(II) Ion and Ascorbic Acid, Niu, Wenjun; Shan, Dan; Zhu, Rong-Hui; Deng, Shengyuan; Cosnier, Serge; Zhang, Xueji, ACS Applied Materials & Interfaces, 2015
 74. Magnetic Zirconium Hexacyanoferrate(II) Nanoparticle as Tracing Tag for Electrochemical DNA Assay, Zhang, Guang-Yao; Deng, Shengyuan; Cai, Wen-Rong; Cosnier, Serge; Zhang, Xueji; Shan, Dan, Anal. Chem. 2015
 75. Novel targeting of PEGylated liposomes for codelivery of TGF- β 1 siRNA and four antitubercular drugs to human macrophages for the treatment of mycobacterial infection: a quantitative proteomic study [ID 79369, Drug Design, Development and Therapy, 2015.
 76. Size-Dependent and Carboxyl-Related Photothermal/Photodynamic Therapy Efficiency of Nano-Graphene Oxide Sheets
 77. Novel targeting of PEGylated liposomes for codelivery of TGF- β 1 siRNA and four antitubercular drugs to human macrophages for the treatment of mycobacterial infection: a quantitative proteomic study
 78. Plumbagin suppresses epithelial to mesenchymal transition and stemness via inhibiting Nrf2-mediated signaling pathway in human tongue squamous cell carcinoma cells
 79. An Efficient Hybrid Structure Derived from Three-dimensional Nitrogen-Doped Graphene Supported MoS₂ Nanoparticles as an Advanced Catalyst for Hydrogen Evolution Reaction by Haifeng Dong, Conghui Liu, Haitao Ye, Linping Hu, Bunshi Fugetsu, Wenhao Dai, Yu Cao, Xueqiang Qi, Huitinglu Lu, and Xueji Zhang, Scientific Report, 2015
 80. Simplest is best: Novel atom-thin chalcogenides with dynamic adjustable compositions by liquid exfoliation of SnS₂-xSex single crystal, Advanced Materials, 2015
 81. Methyl orange removal by a novel PEI-AuNPs-hemin nanocomposite, Weiwen Hu, Xuehua Yu, Qiong Hu, Lianzhi Li Jinming Kong, Xueji Zhang, Photochemical & Photobiological Sciences 2015
 82. Dumbbell-Shaped Carbon Quantum Dots/AuNCs Nanohybrid as a Novel Ratiometric Fluorescent Probe for Sensing of Cadmium (II) Ions and L-ascorbic Acid, DanShan, XuejiZhang, Nanoscale, 2015
 83. Magnetic Zirconium Hexacyanoferrate(II) Nanoparticle as Tracing Tag for Electrochemical DNA Assay, DanShan, XuejiZhang, Anal. Chem. 2015
 84. Ultrasonic Preparation of Fluorescent MoS₂ Quantum Dots for Up-Conversion and Down-Conversion Bioimaging, and Photodynamic Therapy, HaifengDong, XuejiZhang, 2015
 85. Fluorescent MoS₂ Quantum Dots: Ultrasonic Preparation, Up-Conversion and Down-Conversion Bioimaging, and Photodynamic Therapy, songsong tang,; yansong hao, haizhu yu; wenhao dai, guifeng zhao, yu cao, master; huiting lu; xueji zhang; Huangxian Ju, Biomaterials, 2015
 86. Potential-assisted Cu(I)-catalyzed azide-alkyne cycloaddition for hairpin probe-based electrochemical detection of sequence-specific DNA, Qiong Hu, Jinming Kong, Yajie Li, Xueji Zhang, Analyst, 2015

D) Publications in international academic conferences

1. Hand-held cancer biomarker analyzer- yesterday, today and tomorrow, Xueji Zhang, The 12th Asian-Pacific Congress of Clinical Biochemistry, Coex, Seoul, Korea, Oct 3-7, 2010
2. Selective Implantable Nitric oxide Microsensor with pM detection limit, Xueji Zhang, Nikki Scafa, Rosa Grossi, Harry Fein, Chenzhong Li, Chang Liu, Pittcon 2010, Orlando, March, 1, 2010.

3. A gold nanoparticles-based device for the detection and identification of site of S-nitrosylation, Adam C Faccenda, Suzie Durocher, Lauren A Divito, Xueji Zhang, Bulent Mutus, The 16th Society for Free radical Biology and Medicine, San Francisco, Nov. 17-22, 2009
4. Glucose Microsensors Based on Nano- composites, --Progress and problems, Xueji Zhang, plenary talk. BCEIA 2009, Beijing, Nov. 26th, 2009
5. Fast Flow Injection Detection of the Explosive, Hexamethylene Triperoxide Diamine (HMTD) at a Carbon Nanofiber-modified Microelectrode(invited speaker), Xueji Zhang, Nikki Scafa, Rosa Grossi, Chenzhong Li, Harry Fein, 2009 NANO-DDS Conference, Miami, Sept,29-Oct 2, 2009
6. Free Radical Electrochemical Sensors-Promising, Progress and Problem, XIV Biennial meeting of the Society for Free Radical Research, Beijing, Oct. 18-22, 2008
7. NO electrode with pM detection limit—Fact or Fiction? Gordon Conference, Ventura, Feb. 4-9th, 2007. (hot topic lecture)
8. Electrochemical nitric oxide sensors for life science applications----Research, Development and commercialization, Beijing, proceedings of 1st National Conference on Anal. Chem for Life Sciences, March 24-26, 2006(plenary talk)
9. Simultaneous measurement of nitric oxide, hydrogen peroxide, oxygen and hydrogen sulfide by electrochemical arrays, Gordon Conference, Ventura, Feb 5-10th, 2006
10. Progress in Nitric Oxide Electrochemical Sensors, Xueji Zhang, Gordon Conference, II Cicco, Italy, May 22-27, 2005
11. Novel micro pH sensors, Xueji Zhang, Pittcon, Feb 27- March 5, Orlando, 2005
12. Electrochemical Free Radical Sensors-Progress and Problems, Xueji Zhang (invited speaker),International Symposium on Sensors Science,, May 29-June 3, 2004, Nanjiang, China
13. A Portable Nitric Oxide Inhaler for Emergency Clinical Application, Harry Fein, Xueji Zhang, The 3rd International Conference on the Biology, Chemistry, and Therapeutic Application of Nitric oxide, May 24-May28, Nara, Japan
14. Electrochemical measurement of nitric oxide in biomedical samples- Yesterday, today and tomorrow, Xueji Zhang, Mark Broderick (1 hour plenary lecture), International Symposium on Sensors Science, Paris, 16-20, June, 2003
15. Real time and simultaneously monitoring of free radicals in biological samples-from dream to reality, Xueji Zhang, Mark Broderick, (invited lecture) 3rd Conference on Mitochondrial Physiology, 12-15, Sept. 2003, Schrocken, Vorarlberg, Austria
16. A novel free radical detection system, Xueji Zhang, Gordon Conference, Biochemistry of Nitric Oxide, Ventura, Feb.9-14, 2003
17. Electrochemical measurement of nitrate and nitrite with sub-picomole detection limit, Xueji Zhang, Jie Sun, Levis Cardosa, Alec Dickson, Mark Broderick, 8th Annual Meeting of The Oxygen Society, Durham, USA, November, 2001
18. Detection of Nitric oxide in ultra-small volume biological materials by stealthsensor with nanometer tip dimension, Xueji Zhang, Mark Broderick, The 2nd International Symposium on Natural Antioxidants: Molecular Mechanisms and Health effects, June 4-8, 2001, Beijing, China
19. Electrochemical nitric oxide sensor: Yesterday, Today and Tomorrow, Xueji Zhang, Mark Broderick, The 2nd International Symposium on Natural Antioxidants: Molecular Mechanisms and Health effects, June 4-8, 2001, Beijing, China
20. In vivo and in real time probing nitric oxide by NO electrodes, Xueji Zhang, Mark Broderick, OCC 2001 World Congress, March 7 –10,2001, San Barbara, CA,
21. Progress in development of NO electrochemical sensors, Xueji Zhang, Mark Broderick,Gordon Research Conferences, Biochemistry of Nitric oxide, Ventura, CA, USA, Feb. 4-9, 2001
22. Nanometer-size electrode for nitric oxide measurement, Xueji Zhang, Yuliya Kislyak, Levis Cardosa, Mark Broderick, Harry Fein, 7th Annual Meeting of The Oxygen Society, San Diego,, USA, November, 2000
23. Electrochemical measurement of nitric oxide, Xueji Zhang, Mark Broderick,5th National Conference ofFree Radical Research, Biology and Medicine(Plenary lecture), Zhang Jiajie, China,Oct. 2000
24. Electrochemical release of DNA from gold and carbon paste microelectrodes, G. A. Rivas, J. Wang, X.

- Zhang, C. Parrado, M. Jiang, the 51st Pittsburgh Conference and exposition on analytical chemistry and applied spectroscopy, New Orleans, March, 2000,
25. Real time profiling kidney tubular fluid nitric oxide concentration in vivo, David Z. Levine, Michelle Lacovitti, Kevin D. Burns, Xueji Zhang,, First International conference biology, chemistry and therapeutic applications of nitric oxide, San Francisco, USA, June, 2000
 26. Integrated microchip nitric oxide sensor with enhanced sensitivity and selectivity, Xueji Zhang, Levis Cardosa, Mark Broderick, Harry Fein, First International conference biology, chemistry and therapeutic applications of nitric oxide, San Francisco, USA, June, 2000
 27. An integrated nitric oxide ultramicrosensor based on carbon fiber electrode coated with NO-selective membrane, Xueji Zhang, Levis Cardosa, Mark Broderick, Harry Fein, 6th Annual Meeting of The Oxygen Society, New Orleans, USA, November, 1999
 28. Cu⁺ and not Cu²⁺ catalyzes the release of NO from SNAP stoichiometrically, as demonstrate using a novel micro NO sensor, Xueji Zhang, Levis Cardosa, Mark Broderick, Harry Fein, Biochemistry of Nitric Oxide, 6th International Meeting, Stockholm, Sweden, September, 1999
 29. Design of nano-disk electrode and its application for the measurement of dopamine at single cells, Xueji Zhang, Jie Lin, Bozidar Ogorevc, Ursula E. Spichiger, The European Conference on Micro and Nanoscale Technologies for Biosciences, Montreux, Switzerland, November, 1997 (Invited Lecture)
 30. Construction of paint insulated carbon fiber ultramicroelectrodes and their application for monitoring peptide secretion from single cells, Xueji Zhang, Jie Lin, Bozidar Ogorevc, Ursula E. Spichiger, 6th International Seminar on Electroanalytical Chemistry, Changchun, China, October, 1997 (Invited Lecture)
 31. Fabrication, characterization and potential application of carbon fiber cylinder nano-electrodes. Xueji Zhang, Wuming Zhang, Xingyao Zhou, B. Ogorevc, Proceedings of the 6th European Conference on ElectroAnalysis, Durham, England, March, 1996 (30 minutes oral presentation)
 32. Polymer-modified carbon fiber nano-electrodes as potentiometric and amperometric ultramicrosensors, Xueji Zhang, B. Ogorevc, Proceedings the of 6th European Conference on ElectroAnalysis, Durham, England, March, 1996 (30 minutes oralpresentation)
 33. Preparation of over-oxidation polypyrrole film modified microelectrode and its electrochemical properties, Qijin Wan, Xueji Zhang, Chunguang Zhang, Xingyao Zhou, The First International Conference of Bioanalytical Chemistry, Xi'an, China, August, 1995
 34. Nanometer-sized gold ultramicroelectrode: fabrication, characterization and application, Xueji Zhang, Xinyao Zhou, Proceedings of Beijing International Conference of Exhibition on Instruments and Analysis, Peking University Press, Beijing, 1993
 35. Parallel dual microelectrode and its application in analytical chemistry, Wengfen Peng, Xueji Zhang, B.J. Seddon, Xingyao Zhou, Proceedings of Beijing International Conference of Exhibition on Instruments and Analysis, Science Press, Beijing, New York, October, 1991
 36. Study on dual carbon fiber microelectrodes for sensitive measurement of quinols from an ascorbic acid background in static solution, Xueji Zhang, Zaofan Zhao, Fudan University Press, 1991, 67-69
 37. Indirect Spectra-Determination of Amino Acids by Ion Exchange Chromatography, J. Lin, S. Da, X. Zhang, Proceeding of Beijing International Conference of Exhibition on Instruments and Analysis, Science Press, Beijing, New York, October, 1991

E) Invited lectures

1. Hand-held cancer biomarker analyzer- yesterday, today and tomorrow, Xueji Zhang, invited speaker, The 12th Asian-Pacific Congress of Clinical Biochemistry, Coex, Seoul, Korea, Oct 3-7, 2010
2. Biosensing Technology in Clinical Applications, Xueji Zhang, plenary talk, MIT, Dec. 5th, 2009
3. Glucose Microsensors Based on Nano- composites, --Progress and problems, Xueji Zhang, plenary talk. BCEIA 2009, Beijing, Nov. 26th, 2009
4. Electrochemical Sensors and Biosensors, Xueji Zhang, University of Science and Technology, Beijing, Oct. 20, 2009
5. How to write scientific papers, Xueji Zhang, University of Science and Technology, Beijing, Oct. 24, 2009
6. Fast Flow Injection Detection of the Explosive, Hexamethylene Triperoxide Diamine (HMTD) at a Carbon

- Nanofiber-modified Microelectrode(invited speaker), Xueji Zhang, Nikki Scafa, Rosa Grossi, Chenzhong Li, Harry Fein, 2009 NANO-DDS Conference, Miami, Sept.29-Oct 2, 2009
7. In vivo and in real time monitoring of free radicals in biological system-Fact or Fiction, University of New Mexico, Aug. 27th, 2009
 8. In vivo and in real time monitoring of free radicals in biological system---from dream to reality, Fudan Uni. March 16th, 2009
 9. Nanosensors for space research, Chinese Space Center, March 20th, 2009
 10. Electrochemical Sensors, Biosensors and Biomedical Applications, Florida International University, Feb. 13th, 2009
 11. How to write scientific papers and publish in Sci Journals. Chinese PLA General Hospital, Beijing, Dec.23rd, 2008
 12. Biosensors for Clinical diagnostics, 301 Hospital, Beijing, Dec.18rd, 2008
 13. Nitric oxide Electrochemical Sensors—Research, Development and Commercialization, North Dakota State University, Dec. 4th, 2008
 14. Free Radical Sensors for Life Science Research and Application, Nankai University, Oct 23, 2008
 15. How to write scientific papers and publish in Sci Journals. Tianjin Eye Hospital, Tianjin Medical University, Oct 23, 2008
 16. Electrochemical Sensors- Viagra-Space Shuttle Mission, Hubei University, Oct 24th, 2008
 17. Electrochemical sensors-from basic research to high-tech products, Guizhou University, Oct 26, 2008
 18. Free Radical Electrochemical Sensors-Promising, Progress and Problem,(30 min invited lecture)XIV Biennial meeting of the Society for Free Radical Research, Beijing, Oct. 18-22, 2008
 19. Free Radical Sensors for Pharmaceutical Research, University of Florida, Sept 23, 2008
 20. NO electrochemical sensors with pM detection limit, University of Oklahoma, Sept 12,2008
 21. Electrochemical sensors for Space Shuttle, Italian Space Agency, July 10, 2008
 22. Problem and progress on electrochemical sensors design, Shanghai Jiaotong University,May, 20th, 2008
 23. Chemical Sensors and Biosensors, University of San Paulo, Brazil, June 15th, 2007
 24. Implantable free radial sensors,University of Campinas, Brazil, June 11th, 2007
 25. Electrochemical Sensors and Biosensors, Problem and Progress, South East University, Nanjing, April 13th, 2007
 26. Free Radical Sensors and Instrumentations, Nanjing Agriculture University, April 12th, 2007
 27. Electrochemical Sensors and Biosensors, From Basic Research to Commercialization, Chinese Academy of Sciences, Yantai, April 11th, 2007
 28. Electrochemical Sensors and Biosensors, From Basic Research to Commercialization, Peking University, April 10th, 2007
 29. Selective and Sensitive Measurement of Nitric Oxide in vivo, Euro Scicon. (plenary lecture), Oxford, England, March 23, 2007
 30. Electrochemical measurement of homocysteine---research, development and potentialcommercialization,Formosa Biomedical Technology Corp, Taoyuan, Taiwam, Oct 20th, 2006
 31. Sensitive and Selective Monitoring nitric oxide release from Cultured Cells, Harvard Medical School, Harvard University. Sept 28th, 2006,
 32. In vivo and In Real time measurement of free radical by electrochemical sensors, Iwate Medical University, Japan, Sept 13th, 2006
 33. Nitric Oxide Electrochemical Sensors for Biomedical Applications, University of South Florida, Sept 7th, 2006
 34. Chemical Sensors, Biosensors- Research, Development and Commercialization, Nanjing Univ., May 23, 2006
 35. Free Radical Electrochemical sensor, Anhui Normal University, May 25, 2006
 36. Implantable electrochemical sensors, progress, problem and future directions, Wuhan University, June 5th, 2006
 37. Electrochemical Nitric Oxide Sensors and instrumentations, Protein Research Center, COBRE II Seminar

- Series, University of Puerto Rico, Mayaguez, April 25th, 2006,
38. Electrochemical nitric oxide sensors for life science applications----Research, Development and commercialization, Institute of Chemistry, Chinese Academy of Sciences, March 23, 2006
 39. Free Radical electrochemical Sensors-principle, research, development and applications, NIH, Nov. 3rd, 2005
 40. Principle, Fabrication and biomedical application of electrochemical nitric oxide sensors-yesterday, today and tomorrow, Institute of Chemical Biology, Huazhong University of Agriculture, Oct 20th 2006
 41. Principle, Fabrication and biomedical application of electrochemical nitric oxide sensors-yesterday, today and tomorrow, 2nd SFRR Asia/ 3rd ISNA, Shanghai, China. June 24-29, 2005
 42. Electrochemical Sensors and biosensors, problem and progress, Chemical Engineering Department, University of South Florida, May 20th, 2005
 43. Nitric Oxide Electrochemical Sensors for Biomedical Applications, University of Louisville, Dec. 2nd, 2004
 44. Free Radical electrochemical Sensors-principle, research, development and applications, Jackson State University, Jackson, Aug, 25th, 2004
 45. Simultaneously measurement of free radicals by a new electrochemical system, Xueji Zhang, Marine biology Lab, Woods Hole, July 29-July 31st, 2004.
 46. Nitric Oxide electrochemical sensors and their applications in biomedical researches, Xueji Zhang, LSU Medical Center, June 25th,, 2004
 47. Simultaneously measurement of NO, H₂O₂ O₂ by Electrochemical sensors, University of Texas, San Antonio, March 10, 2004
 48. NO electrochemical sensors and their applications in biomedical researches, Xueji Zhang, Institute of Heart and Lung, Ohio State University, March, 18th, 2003
 49. Nitric Oxide electrochemical sensors and their applications in biomedical researches, Xueji Zhang, Oklahoma State University, Stillwater, March 22, 2003, Oklahoma State University, Stillwater,
 50. Implantable free radical sensors, March 29th, 2003. Michigan State University.
 51. Physiological measurement of nitric oxide, fiction or fact? Xueji Zhang, European Symposium for microcirculation, 2002, Exeter, UK, August, 28-30th 2002
 52. Free radical sensors, Xueji Zhang, University Aarhus, Denmark, June 12th, 2002
 53. In vivo measurement of nitric oxide by electrochemical sensors, University of Texas, San Antonio, April 15, 2002
 54. Monitoring nitric oxide release from cells using ultramicrosensors, Xueji Zhang, State University of New York, Old Westberry, September 12th, 2000
 55. Nanoscopic electrodes: What are the limits? Xueji Zhang, Department of Chemistry & Biochemistry, New Mexico State University, Las Cruces, USA, November 15th 1998
 56. Microsensors----- New Trends and Applications, Xueji Zhang, Lecture Invited by World Precision Instruments Inc., Sarasota, Florida, USA, September 18th, 1998
 57. The development of neutral carrier based ion selective electrodes: From micro- to nano-meter size, Xueji Zhang, Lecture Invited by Slovenia Chemical Society, June 3rd 1998, Ljubljana, Slovenia
 58. Nanoelectrodes and their application for monitoring of neurotransmitters at single cells, Xueji Zhang, 1997 Special Seminar of International Center for Science and Culture (ICSC)-World Laboratory, Zurich, Switzerland, December 17th, 1997 (45 min Lecture)
 59. Microelectrodes and ultramicroelectrodes, their development and future, Xueji Zhang, Lecture Invited by Slovenia Chemical Society, Ljubljana, Slovenia, Feb. 10th, 1996

F) On-going and Completed Industrial Projects

1. Miniaturized Electrochemical Sensors and Device for Space Shuttle (PI) 2008-
2. Novel Homocysteine detection system towards clinical application (PI) 2006-
3. Implantable glucose electrochemical sensors (PI) 2006-
4. Integrated micro free radical sensors based on thick film and thin film technology (PI), 2005-
5. Flexible micro pH electrodes based on pulse laser deposition technology (PI), 2005-

6. Superoxide sensors and instrumentation development (PI), 2004-
7. Implantable free radical sensors (PI) 2003-2005 (commercialized in 2005)
8. In vivo nitric oxide microsensors based on new nanomaterials (P.I.) 2002-2004 (commercialized in 2004)
9. Hydrogen peroxide electrochemical sensors and detection system,(P.I.) World Precision Instruments, Inc.2002-2004 (commercialized in 2004)
10. Hydrogen sulfide sensors (P.I.), UAB, World Precision Instruments, Inc. 2002-2005 (commercialized in 2005)
11. High resolution oxygen detection system (P.I.) World Precision Instruments, Inc. 2002-2003(commercialized in 2003)
12. New nitric oxide detection system with multiple channels,(P.I.) World Precision Instruments, Inc., USA. 2001-2006, some products of this project were commercialized in 2004.
13. Development of new generation nitric oxide sensor based in chip technology for biological application, World Precision Instruments, Inc.(P.I.) 1999-2000. Commercialized in 2000.
14. Nanometer scale nitric oxide sensor,(P.I.) 2000-2001, commercialized in 2001.
15. L-shape carbon fiber nitric oxide sensor for measurement of nitric oxide in blood vessel,(P.I.) 1999-2001, commercialized in 2001
16. NO Electrode rejuvenator,(P.I.) 1999-2000, commercialized in 2000.
17. Flow injection system for S-nitrosothiols measurement,(P.I.) 2000-2004 (commercialized in 2004)
18. Monitoring pH profile in microscale range for instant food, Nestle Co. Switzerland, 1997-1998
19. Development and evaluation of Magnesium ion selective electrodes for clinical application, AVL, Austria, 1997-1998
20. Evaluation of oral nutrition liquid for Beijing Wangzong Co. 1994-1995
21. Investigations on new process for production of sodium carbonate by double composition method. 1984-1988. More than 10 factories were set up using the new method in China.
22. New process for synthesis of glucopyrone for Huainan Pharmaceutical Co. Anhui, China, 1982-1986