



XiuJun (James) Li, Ph.D.

Associate Professor
The University of Texas at El Paso
Department of Chemistry & Biochemistry
500 W. University Ave. El Paso, TX 79968

Phone: 915-747-8967
Fax: 915-747-5748
xli4@utep.edu
<http://li.utep.edu>

EDUCATION:

Harvard University & Wyss Institute NSERC Postdoctoral Fellow, George M. Whitesides Group	01/2010-12/2011 Cambridge, USA
University of California Berkeley NSERC Postdoctoral Fellow, Genetic Analysis	12/2008-12/2009 Berkeley, USA
Simon Fraser University Ph.D., Bioanalytical Chemistry, Microfluidic Single-cell Analysis	05/2003-10/2008 Burnaby, Canada
Shandong University M.Sc., Bioanalytical Chemistry	09/1999-07/2002 Jinan, China
Qingdao University B.Sc., Applied Chemistry	09/1995-07/1999 Qingdao, China

POSITIONS:

08/2017-	Associate Professor with early-tenure in Chemistry & Biochemistry, & Biomedical Engineering (BME), & Environmental Science & Engineering (ESE), University of Texas at El Paso (UTEP)
08/2018-	Founder, microBioChip Diagnostics, LLC
07--09/2017	Visiting Associate Professor, Hamon Center for Therapeutic Oncology Research, & Department of Surgery, UT Southwestern Medical Center
01/2012-2017	Tenure-track Assistant Professor in Chemistry, & Biomedical Engineering (BME), & Environmental Science & Engineering (ESE), UTEP
01/2012-	Faculty, Border Biomedical Research Center (BBRC), UTEP
01/2012-	Faculty, Material Science and Engineering (MASE), UTEP

HONORS & AWARDS:

2018	Outstanding Faculty Dissertation Research Mentoring Award, UTEP
2017	NIH BUILDING Scholar Mentoring Award for Excellence in Student Research Mentoring
2017	Hochun Portable Microfluidic Award Finalist (Top 4), microTAS 2017 Conference
2017-	Grant Award from the Emily Koenig Meningitis Fund of the Philadelphia Foundation
2017-	Innovation Center Proof-of-concept Award , Medical Center of the Americas (MCA) Foundation
2017-2018	Outstanding Efforts Award, UTEP
2017	NIH BUILDing Scholar Summer Sabbatical Award
2017-2020	“ 1000 Talents ” Award (short-term) from Tianjin City, China
2017	NIH BUILDing Scholars Faculty Travel Award
2016-2017	Outstanding Faculty Research Mentoring Award , UTEP
2015-2016	Outstanding Performance Award , UTEP.
2015-2018	NIH/NIAID R21 Grant Award (\$410K)
2016	NSF PREM Travel Award
2016	Emerging Investigator, by <i>Analyst</i>
2016	Nominated for 2016 TEXAS INVENTOR OF THE YEAR

2015	Distinguished Young Scholar, Silk Road International Symposium
2014	2014 Bioanalysis Young Investigator Award
2013-2014	Outstanding Performance Award , UTEP.
2013-2017	NIH/NIGMS SC2 Grant Award (\$440K)
2011-2013	UT STARS Award , University of Texas System, \$250,000.
2009-2011	NSERC Postdoctoral Fellowship (PDF), Natural Sciences & Engineering Research Council (NSERC) of Canada, two years. <i>“Only to the most promising researchers at a pivotal time in their careers who demonstrate exceptional research abilities.”</i>
2009	Dean of Graduate Studies Convocation Medal , Simon Fraser University (SFU) <i>“Only to the convocating student from each faculty who has achieved the highest level of academic & research excellence.” Only one winner in each faculty each year.</i>
2007	Award of President’s Ph.D. Research Stipend, Simon Fraser University
2005	SFU Graduate Fellowship, Simon Fraser University
2004	Chinese Government Award for Outstanding Self-financed Graduate Student Abroad <i>The only winner at SFU between 2004-2007. Only 19 awardees in Canada in 2005.</i>
2001	Graduate Future Star Scholarship, Shandong University (SDU)
1999	Most Outstanding Graduate of Shandong Province
1998	Student Model of the School of Science and Technology, Qingdao University
1998	Most Outstanding Student of Shandong Province, Top 10/15,000
1998,1996	Outstanding Student of Qingdao University (<i>twice</i>)
1998,1997	Distinguished Student Leader of Qingdao University (<i>twice</i>)
1995, 1989	Most Outstanding Student of Qingdao City (<i>twice</i>)
1995-1999	Undergraduate Fellowship of Qingdao University (<i>six times</i>)
1994	Most Distinguished Student Leader of Qingdao City
2017	Award Evaluation Committee for Early Career Research Award, Future Science OA
2017-2018	Micromachines Travel Awards Evaluation Committee

RESEARCH EXPERIENCE:

- ❖ 01/2012- Present **Current Group Research Interests:** Microfluidic lab-on-a-chip and nanotechnology for bioanalysis, environmental analysis, catalysis, and biomedical engineering
Key words: Paper/polymer hybrid microfluidic devices; Paper-based microfluidic devices; Nanosensing; Low-cost diagnosis; Infectious disease diagnosis; biomarker detection; Cancer research; Nucleic acid detection; Immunoassay; 3D cell culture; Single-cell analysis; Subcellular Analysis
- ❖ 01/2010-12/2011 Postdoctoral Fellow at **Harvard University & Wyss Institute for Biologically Inspired Engineering**.
Supervisor: Prof. **George M. Whitesides**.
Developing new approaches for low-cost diagnosis and 3D cell culture.
- ❖ 12/2008-12/2009 Postdoctoral Fellow at **UC Berkeley**.
Supervisor: Prof. **Richard A Mathies**.
Devised new integrated microdevices for genetic assays.
- ❖ 05/ 2003-07/ 2008 Explored **microfluidic lab-on-a-chip systems for single-cell analysis** in the **Ph.D.** program at Simon Fraser University, Canada.
Supervisor: Prof. **Paul C.H. Li**
Ph.D. dissertation: “Dynamic single-cell analysis using microfluidic biochips pertaining to drug discovery”.
- ❖ 09/1999-07/2002 Bioanalysis using capillary electrophoresis (CE) with electrochemical detection in **M.Sc.** program at Shandong Univ. with Prof. Wenrui Jin.
M.Sc. thesis: “Bioanalysis of bioactive compounds by capillary electrophoresis with electrochemical detection”.

- ❖ 04/2000-04/2001 Investigated amino acid separation by CE with LIF and UV detections in the State Key Laboratory of Microbial Technology, China.
- ❖ 02/1999-06/2000 Studied the antioxidant activities of herbals and vegetables under the guidance of Prof. Hu Hang and Prof. Lixin Zhang at Qingdao Univ.
B.Sc. thesis: “The study of antioxidant abilities of common herbs and vegetables”.

TEACHING EXPERIENCE:

- 2012-Present Taught *Advanced Analytical Chemistry, Contemporary Topics in Analytical Chemistry, Instrumental Analysis, Quantitative Analytical Chemistry, General Chemistry* and *Graduate Seminar* at UTEP
- 2005-2008 Teaching assistant for Chem121 Tutorial (*General Chemistry*) at Simon Fraser University
- 2006-2008 Teaching assistant for Chem121 Lab (*General Chemistry*) at Simon Fraser University
- 2003-2004 Teaching assistant for Chem215 (*Anal. Chem.*) at Simon Fraser University.
- 2003-2010 Mentored three undergraduates at Harvard University and Simon Fraser University.
- 1999-2001 Part-time undergraduate advisor in Chem. Dept. at Shandong Univ.

PROFESSIONAL & ACADEMIC ACTIVITIES:

Scientific Journals:

- ❖ 2014- Editor, *Scientific Reports* from Nature Publishing Group.
- ❖ 2015- Editorial Board Member, *Micromachines*
- ❖ 2016- Editorial Board Member, *Future Science OA*
- ❖ 2014-2016 Young Ambassador of Editorial Advisory Board for **Future Science OA**.
- ❖ 2015- Guest Editor, Special Issue in *Current Pharmaceutical Biotechnology*, Topic, "Miniaturized platforms and methods for pharmaceutical studies"
- ❖ 2011- Member of **Board of Editorial Advisors**, *Canadian Journals of Pure & Applied Sciences, Annals of Public Health and Research, Journal of Stem Cells Research, Review and Reports*.
- ❖ 2010- Invited Referee for the **Wiley** journal of *Advanced Materials, Small, Electrophoresis, Biotech Progress, Advanced Healthcare Materials*
- ❖ 2010- Invited Referee for the **RSC** journals of *Lab on a Chip, Chem Comm, Nanoscale, Analyst, Analytical Methods, RSC Advances, Molecular BioSystems, Physical Chemistry Chemical Physic, Toxicology Research, Chemical Science*.
- ❖ 2012- Invited Referee for **ACS** journals of *Analytical Chemistry, Langmuir, ACS Applied Materials and Interfaces, ACS Applied Bio Materials, ACS Omega*
- ❖ 2013- Invited Referee for **Elsevier** *Science and Technology of Advanced Materials, Talanta, Chromatography A, Colloids and Surface B: Biointerfaces; Acta Biomaterialia; Biochemical Engineering Journal, Trends in Analytical Chemistry, Sensors and Actuator B, Catalysis Today, Biotechnology Advances*.
- ❖ 2014- Invited Referee for *Trends in Biotechnology, Scientific Reports, Biomicrofluidics, Plos One, Theranostics, Micromachines, Analytica Chimica Acta, IEEE Sensors Journal, Clinical Chemistry, Analytical & Bioanalytical Chemistry*

Conferences:

- ❖ 2018.06 **Symposium organizer and Presider (Track Co-Chair)** for ICMFLOC 2018 (International Conference of Microfluidics, Nanofluidics, and Lab-on-a-Chip).
- ❖ 2017.04 **Symposium Organizer and Presider** for ACS 2017 “Recent Innovations in Nano-Biosensing”.
- ❖ 2017.03 **Symposium Organizer and Presider** for Pittcon 2017 “Recent Innovations in Nanosensing”.
- ❖ 2016.07 **Symposium Organizer** for Optofluidics 2016 “Cost-effective microfluidic devices for bioanalysis”.

- ❖ 2016.03 **Symposium Organizer and Presider** for Pittcon 2016 “Emerging Technologies for Disease Biomarker Detection”.
- ❖ 2015.03 **Symposium Organizer and Presider** for Pittcon 2015 “Platforms of Point of care testing” (with Dr. Hugh Fan).
- ❖ 2018.02 Invited Session Chair for Pittcon 2018 “Nanotechnology –Bioanalytical and Imaging”
- ❖ 2017.10 Invited **Session Chair** for BCEIA 2017 (17th Beijing Conference and Exhibition on Instrumental Analysis), Beijing, China
- ❖ 2016 **Invited Session Chairs** for the 2016 ICMNLOC Conference (two sessions, International Conference of Microfluidics, Nanofluidics and Lab-on-a-chip)
- ❖ 2015.03 Invited Session Chair for Pittcon 2015 “Novel Microfluidic Instrumentation and Devices”
- ❖ 2014.06 Invited **Session Chair** for the CSC 2014 Conference (Canadian Society for Chemistry) in Vancouver, BC.
- ❖ 2013.05 Invited **Session Chair** for the conference of Advances in Microfluidics & Nanofluidics 2013, Notre Dame, IN.
- ❖ 2012.07 **Session Chairs** for 2012 ASME International Conference on Nanofluidics and Microfluidics at Puerto Rico
- ❖ 2017.09 Attended NSF-supported “Analytical Chemistry **Active Learning**” workshop (II)
- ❖ 2016.05 Attended NSF-supported “Analytical Chemistry **Active Learning**” workshop (I)

Grant Peer Review Panelist:

- ❖ 2013, 2015 National Aeronautics and Space Administration (**NASA**), twice
- ❖ 2013-2015 National Science Foundation (**NSF**), three times
- ❖ 2017,2018 NSF Graduate Research Fellowship Program (GRFP) Panelist, twice
- ❖ 2018 U54 Study Section of POC Technologies Research Work Center, **NIH**
- ❖ 2017 CRFS Study Section, National Institute of Health (**NIH**)
- ❖ 2018 Study Section small business (ZRG1 IDM-V12) and research (ZRG1 IDM-V81), NIH
- ❖ 2016 National Institute of Health (**NIH**), NIGMS
- ❖ 2018 Discovery-MT (DIS-MT) peer review panel, Congressionally Directed Medical Research Programs (CDMRP), Department of Defense (DOD).
- ❖ 2018 US Army Medical Research and Material Command (MRMC), Department of Defense (DOD).
- ❖ 2018 Defense Medical Research & Development Program (DMRDP), DOD
- ❖ 2017 ACS Petroleum Research Grant
- ❖ 2018 Canada Foundation for Innovation (CFI) grants
- ❖ 2013 Canadian Institutes of Health Research (**CIHR**)
- ❖ 2013 Netherlands Organisation for Scientific Research (**NWO**)
- ❖ 2014 CCNY-MSKCC Partnership for Cancer Research, Training, and Community Outreach
- ❖ 2015- Singapore Ministry of Defence and Singapore University of Technology & Design
- ❖ 2015- Singapore Ministry of Education –National Research Foundation
- ❖ 2015- Innovation & Technology Commission, Hong Kong SAR Government
- ❖ 2017 QED Program, American Institute of Biological Sciences

Membership & Others:

- ❖ 2006-Present **ACS** (American Chemical Society) membership.
- ❖ 2012- 2013 **Sigma Xi** Full Membership
- ❖ 2012- Invited RSC (Royal Society of Chemistry) e-Membership
- ❖ 2004-2005 Membership of **CSC** (Canadian Society for Chemistry) & **CIC** (Chemical Institute of Canada).
- ❖ 2010- Membership of ACMES (American Chinese Medical Exchange Society).
- ❖ 2017- Department Tenure & Promotion Committee, UTEP
- ❖ 2016- Member, Chemistry Graduate Study Committee, UTEP
- ❖ 2018- Department Chairman Search Committee, UTEP
- ❖ 2017-2018 Faculty Search Committee for Environmental Chemist, UTEP
- ❖ 2015 New Hire Search Committee for Cleanroom Lab Manager, UTEP

- ❖ 2014-2015 Faculty Search Committee for Medicinal Chemist, UTEP
- ❖ 2014-2015 Graduate School Outstanding Thesis and Dissertation Selection Committee at UTEP
- ❖ 2017- Chair, Department Website Committee, UTEP
- ❖ 2012-2017 Student Award Committee, UTEP
- ❖ 2007-2008 **President** of CSSA (Chinese Students & Scholars Association) at SFU
- ❖ 2005- 2008 TSSU executive (Trustee II, Ex-officio, & Privacy Officer. 3 terms), SFU.
- ❖ 2006.08 Attended 15th CGEU conference at Philadelphia, PA, USA, as a TSSU delegate.
- ❖ 2003-2006 Chemistry Graduate Caucus executive (Chem. TSSU Representative), SFU
- ❖ 1997-1998 **President** of Student Society of Chem. Dept., Qingdao Univ.
- ❖ 1998-1999 Chairman of Students Guide Association, Qingdao Univ.

GRANT SUPPORT:

Topics	Role	Agency	Dates	Amount	Status
Bioanalysis by microfluidic lab-on-a-chips	PI	UT System	01/12-02/14	\$250,000	Awarded & completed
Grafting DNA Codes on Paper for Rapid, Low-Cost, and Sensitive Meningitis Diagnosis (1SC2GM105584)	PI	NIH/NIGMS	05/13-01/17	\$438,014	Awarded & completed
Point-of-care Device for rapid diagnosis of pertussis (R21AI107415)	PI	NIH/NIAID	05/15-04/19	\$405,305	Awarded
PREM Center for Energy and Biomaterials (DMR1827745)	Co-PI	NSF	09/18-08/24	\$3,870,000	Awarded
Point-of-care device for sensitive tuberculosis diagnosis (5G12MD007593-22)	PI	NIH/NIMHD/RCMI	04/15-03/16	\$31,375	Awarded & completed
μBiochip Diagnostics. (by Medical Center of the Americas)	PI	MCA Foundation	09/17-08/19	\$50,000	Awarded
Development of low-cost biochips for Meningitis Diagnosis	PI	Emily Koenig Meningitis Fund of the Philadelphia Foundation	07/17-06/19	\$6,500	Awarded
Photothermal nanomaterials for high-efficiency biomass conversion	PI	NSF/PREM (seed grant)	02/17-05/19	\$24,052	Awarded
Development of a point-of-care device for rapid tuberculosis diagnosis in low-resource settings	PI	UTEP-IDR2	2015-2016	\$20,000	Awarded & Completed
Research Driven Course Development-BioMEMES	PI	NIH BUILD	2016	\$35,432	Awarded & completed
MRI: Acquisition of MoFlo XDP FACS Sorter (#1626587)	Investigator	NSF	2016-2019	\$429,737	Awarded
Point of care devices for detection of multi-drug resistance microorganisms	PI	American Society for Clinical Lab Science	08/15-08/16	\$5,000	Awarded & Completed
UTEP support	PI	UTEP		\$216,334	Completed
Low-cost point of care devices for fast diagnosis of respiratory diseases	PI	UTEP-CoS Multidisciplinary Research Pilot Grant	01//14-08/14	\$20,000	Awarded & completed
Using hybrid microscopic methods to study highly movable biological objects	Co-PI	UTEP-IDR2	09/13-08/14	\$20,000	Awarded & completed

Grafting DNA Code on Paper for Low-cost and Sensitive Multiplex Pathogen Detection on 3D Microfluidic Devices	PI	Interdisciplinary Research (IDR) Program- UTEP	09/12-12/13	\$21,089	Awarded & completed
Development of a point of care device for the rapid identification of pertussis	PI	American Society for Clinical Laboratory Science	08/13-08/14	\$5,000	Awarded & completed
Subcellular genetic analysis on an integrated microfluidic platform using micro-reactors	PI	State Key Laboratory of Bioreactor Engineering of China	06/12-05/14	¥ 70,000	Awarded & completed
Simple and Sensitive One-step Aptamer-based Pathogen Detection Using High-throughput Droplet-based Lab-on-a-Chip Platform	PI	University Research Incentive (URI) Program-UTEP	01/13-12/13	\$5,000	Awarded & completed

PRODUCTS:

a. Publication List (* denotes corresponding authors. Google Scholar **H-index: 24**)

- 74' Jin, Q.; Ma, L.; Zhou, W.; Shen, Y.; Fernandez-Delgado, O.; **Li, X.*** Smart Paper Transformer: New sight for enhanced catalytic efficiency and reusability of noble metal nanocatalysts, *Appl. Catal. B: Environmental* 2018, Submitted.
- 73' Dou, M.; Sanchez, J.; Tavakoli, H.; Gonzalez, J. E.; Sun, J.; Dien Bard, J.; Dominguez, D. C.; **Li, X.*** A Point-of-Care Testing Device for Rapid and Instrument-Free Detection of Bordetella Pertussis, *Anal Chim Acta* 2018, Submitted, Under Revision.
- 72' Li, T., Wei, W., Wei, J., **Li, X.** Binary Image Super-resolution Reconstruction Algorithm Based on Sparse Representation. *IET Image Processing* 2018, Submitted.
- 71' Prasad, K. S.; **Li, X.*** New method to amplify colorimetric signals of paper-based nanobiosensors for simple pancreatic cancer biomarker detection, *Analyst* 2018, Submitted.
- 70' Zhang, T.; Liu, Y.; Song, W.; **Li, X.;** Liu, R., et al. Effect of Perfluoroalkyl acids (PFAAs) in DNA damage by indirect and direct interactions: influence of different carbon atoms in PFAAs *Sci. Rep.* 2018, Under Revision.
- 69' Dou, M.; Macias, N.; Shen, F.; Dien Bard, J.; Dominguez, D. C.; Li, X. Rapid and Accurate Pertussis Diagnosis on a Point-of-Care Biochip, *The Lancet. Infectious diseases* 2018, Submitted.
- 68' Prasad, K. S.; Jin, Q.; Sanjay, S. T.; **Li, X.*;** A Low-Cost Disposable Electrochemical Immunosensor on Paper for Early Detection of Pancreatic Cancer Biomarker, *Sens Actuators B Chem* 2018, Submitted.
- 67 Tavakoli, H., Zhou, W., Ma, L., **Li, X.*;** Paper and paper hybrid microfluidic devices for point-of-care detection of infectious diseases. In: Nanotechnology and Microfluidics. Wiley-VCH, 2018, Submitted. (Invited Book Chapter)
66. Xu, X.; Wang, X.; Hu, J.; Gong, Y.; Wang, L.; Zhou, W.; **Li, X.;*** Xu, F.* A smartphone-based on-site nucleic acid testing platform at point-of-care settings *Electrophoresis* 2018, In Press. DOI: 10.1002/elps.201800449..
65. Wei, X.; **Li, X.*** Multiplexed instrument-free bar-chart Spinchip integrated with nanoparticle-mediated magnetic aptasensors for visual quantitative detection of multiple pathogens, *Proc. Micro Total Analysis Systems* 2018, 22, 60-62.
64. Zhou, W.; **Li, X.*** Simple one-step surface modification to graft DNA codes on paper devices and its biomedical application, *Proc. Micro Total Analysis Systems* 2018, 22, 1819-1021.

63. Wei, X.; Zhou, W.; Sanjay, S. T.; Zhang, J.; Jin, Q.; Dominguez, D. C.; **Li, X.*** Multiplexed Instrument-free Bar-chart SpinChip Integrated with Nanoparticle-mediated Magnetic Aptasensors for Visual Quantitative Detection of Multiple Pathogens, *Anal Chem* 2018, 90, 9888-9896. DOI: 10.1021/acs.analchem.8b02055. [PMC6157022](#).
62. Jin, Q.; Shen, Y.*; Ma, L.; Zhu, S.; Zhang, J.; Zhou, W.; Wei, X.; **Li, X.*** Novel TiO₂ catalyst carriers with high thermostability for selective catalytic reduction of NO by NH₃, *Catalysis Today* 2018, In Press. DOI: 10.1016/j.cattod.2018.04.038. (IF 4.6)
61. Fu, G.; Sanjay, S. T.; Zhou, W.; Brekken, R.A.; Kirken, R.A.; **Li, X.*** Exploration of Nanoparticle-Mediated Photothermal Effect of TMB-H₂O₂ Colorimetric System and Its Application in a Visual Quantitative Photothermal Immunoassay, *Anal Chem* 2018, 90, 5930-5937. DOI: 10.1021/acs.analchem.8b00842. (IF 6.3)
60. Katla, S. K.; Zhang, J.; Castro, E.; Bernal, R. A.; **Li, X.*** Atomically-precise Au₂₅(SG)₁₈ nanoclusters: Rapid single-step synthesis and application in photothermal therapy, *ACS Appl. Mater. Interfaces* 2018, 10(1), 75-82. DOI: 10.1021/acsami.7b12614. [PMC6157023](#). (IF 8.1 in 2017)
59. Sanjay, S. T.; Zhou, W.; Dou, M.; Tavakoli, H.; Ma, L.; Xu, F.; **Li, X.*** Recent Advances of Controlled Drug Delivery Using Microfluidic Platforms, *Adv. Drug Deliv. Rev.* 2018, 128, 3-28. DOI: 10.1016/j.addr.2017.09.01. [PMC5854505](#). (5-year Impact factor 17.6).
58. Sanjay, S. T.; Li, M.; **Li, X. J.*** A REUSABLE PAPER/POLYMER HYBRID PLUG-AND-PLAY MICROFLUIDIC PLATFORM FOR HIGH-SENSITIVITY IMMUNOASSAY, *Proc. Micro Total Analysis Systems* 2017, 21, 1463-1464.
57. Dou, M.; Sanjay, S. T.; **Li, X. J.*** MULTIPLEX QUANTITATIVE LAMP DETECTION ON A PMMA/PAPER HYBRID SPINCHIP, *Proc. Micro Total Analysis Systems* 2017, 21, 1227-1228.
56. Tang, R.; Yang, H.; Choi, J. R.; Gong, Y.; You, M.; Wen, T.; Li, A.; **Li, X.**; Xu, B.; Zhang, S., et al. Capillary blood for point-of-care testing, *Crit. Rev. Clin. Lab. Sci.* 2017, 54, 294-308. DOI: 10.1080/10408363.10402017.11343796. (IF 5.3)
55. Dou, M.; Sanjay, S. T.; Dominguez, D. C.; Zhan, S.; **Li, X.*** A Paper/Polymer Hybrid CD-Like Microfluidic SpinChip Integrated with DNA-Functionalized Graphene Oxide Nanosensors for multiplex qLAMP Detection, *Chem Comm* 2017, 53, 10886-10889. DOI: 10.1039/C1037CC03246C. [PMC5626606](#). (IF 6.3)
54. Tang, R.; Yang, H.; Choi, J. R.; Gong, Y.; Hu, J.; Wen, T.; **Li, X.**; Xu, B.; Mei, Q.; Xu, F. Paper-based device with on-chip reagent storage for rapid extraction of DNA from biological samples, *Microchimica Acta* 2017, 184, 2141-2150. DOI:10.1007/s00604-017-2225-0. (IF 4.6)
53. Tang, R.; Yang, H.; Gong, Y.; Liu, Z.; **Li, X.**; Wen, T.; Qu, Z.; Zhang, S.; Mei, Q.; Xu, F. Improved Analytical Sensitivity of Lateral Flow Assay using Sponge for HBV Nucleic Acid Detection, *Sci. Rep.* 2017, 7, 1360. DOI:10.1038/s41598-017-01558-x. (IF 4.3)
52. Shen, F.*; Li, Y.; Liu, Z.; **Li, X.*** Study of flow behaviors of droplet merging and splitting in microchannels using Micro-PIV measurement, *Microfluid Nanofluid* 2017, 21, 66. (IF 2.3)
51. Zhang, J.; Wei, X.; Zeng, R.; Xu, F.; **Li, X.*** Stem cell culture and differentiation in microfluidic devices towards organ-on-a-chip, *Future Sci OA* 2017, 3, FSO187. DOI: 10.4155/fsoa-2016-0091.

† [Top Downloaded Article](#).

50. Zhan, S.*; Zhang, H.; Zhang, Y.; Shi, Q.; Li, Y.; **Li, X.*** Efficient NH₃-SCR removal of NO_x with highly ordered mesoporous WO₃(χ)-CeO₂ at low temperatures, *Appl. Catal., B.* 2017, 203, 199-209. [PMC5505671](#). DOI: 10.1016/j.apcatb.2016.10.010. (IF 11.7 in 2017)

49. Dou, M.; Sanjay, S. T.; Dominguez, D. C.; Liu, P.; Xu, F., **Li, X.*** Multiplexed Instrument-Free Meningitis Diagnosis on a Polymer/Paper Hybrid Microfluidic Biochip, *Biosens. Bioelectron.* 2017, 87, 865-873. [PMC5125860](#). (IF 8.2 in 2017)
48. Zhang, Q.; Wang, D.; Jiang, G.; Liu, W.; Deng, Q.; **Li, X.**; Qian, W.; Ouellet, H.; Sun, J. EsxA membrane-permeabilizing activity plays a key role in mycobacterial cytosolic translocation and virulence: effects of single mutation at glutamine 5, *Sci. Rep.* 2016, 32618.
47. Dou, M.; Sanjay, S. T.; **Li, X. J.*** A polymer/paper hybrid microfluidic device for multiplexed instrument-free detection of bacterial meningitis, *Proc. Micro Total Analysis Systems* 2016, 20, 607-608.
46. Sanjay, S. T.; Dou, M.; Sun, J.; **Li, X.*** A paper/polymer hybrid microfluidic microplate for rapid quantitative detection of multiple disease biomarkers, *Sci. Rep.* 2016, 30474. [PMC4960536](#). DOI: 10.1038/srep30474.
45. Dou, M.; Lopez, J.; Rios, M.; Garcia, O.; Xiao, C., Eastman, M.; **Li, X.*** A fully battery-powered inexpensive spectrophotometric system for high-sensitivity point-of-care analysis on a microfluidic chip, *Analyst* 2016, 141, 3898-3903. DOI: 10.1039/C1036AN00370B. [PMC4899221](#). (IF 3.9)
† Dr. Li is featured in the *Analyst Emerging Investigator* thematic issue.
44. Fu, G.; Sanjay, S. T.; **Li, X.*** Cost-effective and sensitive colorimetric immunosensing using an iron oxide-to-Prussian blue nanoparticles conversion strategy, *Analyst* 2016, 141, 3883-3889. [PMC4899236](#).
† Dr. Li is featured in the *Analyst Emerging Investigator* thematic issue.
- 43.5 **Li, X.*** Editorial (Thematic Issue: Special Issue for Current Pharmaceutical Biotechnology Miniaturized Platforms & Methods for Pharmaceutical Studies), *Curr Pharm Biotechnol* 2016, 17, 753-754.
43. Sanjay, S.T.; Dou, M.; Fu, G.; Xu, F.; **Li, X.*** Controlled Drug Delivery Using Microdevices. *Curr Pharm Biotechnol* 2016, 17, 772-787. [PMC5135015](#). (IF 2.5 in 2016).
42. Fu, G.; Sanjay, S.T.; Dou, M.; **Li, X.*** Nanoparticle-mediated photothermal effect enables a new method for quantitative biochemical analysis using a thermometer. *Nanoscale* 2016, 8, 5422-5427. [PMC5106188](#). (IF 7.4)
41. Dou, M.; Garcia, J. M.; Zhan, S.; **Li, X.*** Interfacial nano-biosensing in microfluidic droplets for high-sensitivity detection of low-solubility molecules. *Chem Comm* 2016, 52, 3470-3473. [PMC4760840](#).
† Featured in **Front Cover**. 
40. Choi, J. R.; Hu, J.; Tang, R. h.; Gong, Y.; Feng, S.; Ren, H.; Wen, T.; **Li, X.**; Wan Abas, W. A. B.; Pingguan-Murphy, B.; Xu, F. An Integrated Paper-based Sample-to-Answer Biosensor for Nucleic Acid Testing at the Point of Care. *Lab Chip* 2016, 16, 611-621. (IF 6.0)
39. Qi, H.; Huang, G.; Han, Y. L.; Lin, W.; **Li, X.**, et al. In vitro spatially organizing the differentiation in individual multicellular stem cell aggregates, *Crit Rev Biotech*, 2016, 36, 20-31. (IF 6.5 in 2016)
38. Sanjay, S. T.; Dou, M.; **Li, X. J.*** A paper/PMMA hybrid microfluidic microplate for detection of infectious diseases. *Proc. Micro Total Analysis Systems* 2015, 19, 951-953.
37. Sanjay, S. T.; Fu, G.; Dou, M.; Xu, F.; Liu, R.; Qi, H.; **Li, X.*** Biomarker detection for disease diagnosis using cost-effective microfluidic platforms. *Analyst* 2015, 140, 7062-7081. DOI: 10.1039/C1035AN00780A. [PMC4604043](#).
† Featured in **Front Cover**. 

36. Dou, M.; Sanjay, S. T.; Benhabib, M.; Xu, F.; **Li, X***. Low-cost Bioanalysis on Paper-based & Its Hybrid Microfluidic Platforms, *Talanta* 2015, 145, 43-54. [PMC4607929](#). (IF 4.2)
 35. Xu, X., Akay, A., Wei, H., Pinguan-Murphy, B., Erlandsson, B., **Li, X.**, et al. Advances in Smartphone-Based Point-of-Care Diagnostics, *Proc. IEEE* 2015, 103, 236-247. (IF 9.1 in 2017)
 34. Dou, M.; Dominguez, D. C.; **Li, X***. A Versatile Paper /PDMS Hybrid Microfluidic biochip for low-cost global Infectious Disease Diagnosis, *Proc. Micro Total Analysis Systems* 2014, 18, 1048-1050.
 33. Dou, M.; Dominguez, D. C.; **Li, X***; Sanchez, J.; Scott, G. A Versatile PDMS/Paper Hybrid Microfluidic Platform for Sensitive Infectious Disease Diagnosis, *Anal. Chem.* 2014, 86, 7978-7986. [PMC4144724](#). (IF 6.3)
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c. Conference Presentations (64 Abstracts) Presenters are underlined.

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 6. **Li, X.J.**, Li, P.C.H., Sung, M.W., Chew, D., Xue, X., "Study of the drug action of licorice compounds on single blood-type cancer cells on a microfluidic chip", *2nd CICMR* (Canadian Institute of Chinese Medical Research), Vancouver, BC, Canada, Sept 23-24, 2005.
 5. **Li, X.J.**, Li, P.C.H., "Quantitative calcium measurement of A single cardiomyocyte in the microfluidic chip", *4th CWMEMS* (Canadian Workshop on MEMS & Microfluidics), Ottawa, ON, Canada, Aug. 19, 2005.
 4. Li, P.C.H., Peng, X.Y., **Li, X.J.**, "Cell selection, cell retention, cell culture, cell scanning on a microfluidic chip for single-cell biochemical studies pertaining to drug discovery", *Pittcon 2005*, Orlando, FL, USA, Feb 27-Mar 4, 2005.
 3. **Li, X.J.**, Li, P.C.H., "The study of contractible bodies with a microsensor based on the quartz crystal resonator", *87th Conf. Can. Soc. Chem.(CSC)*, May 29-June 1, 2004, London, ON, Canada.
 2. **Li, X.J.**, Li, P.C.H., "Study of the formation, expansion and contraction of a hydrogel polymer with a quartz crystal resonator sensor" *ASI (Advanced System Institute)exchange*, March 9, 2004, Vancouver, BC, Canada.
 1. **Li, X.J.**, Li, P.C.H., "A quartz crystal sensor for monitoring the polymerization, expansion and contraction of a contractible body", *8th PCAMM (Pacific Centre for Advanced Materials and Microstructures)* Dec 6, 2003, Burnaby, BC, Canada.

d. Invited Seminars/Talks (40)

40. "Microfluidic Lab-on-a-chip and Nanotechnology for Low-cost Bioanalysis", **University of Kansas**, Lawrence, Kansas; November 2nd, 2018.
39. "Go Smaller: A Journey of Device Miniaturization For Low-Cost Biomedical Applications", **Shanghai Jiao Tong University**, School of Medicine, Shanghai, China; July 25, 2018.
38. "micro- & nano- technologies for environmental science and applications", **Nankai University**, Tianjin, China; July 16, 2018.
37. "Microfluidic Lab-on-a-Chip for Biomedical Applications", **Taiyuan University of Technology**, Taiyuan, China; July 4, 2018.
36. "Nanotechnology for Bioanalytical & Environmental Applications", **Qingdao University**, College of Chemistry & Chemical Engineering, Qingdao, China; June 28, 2018.
35. "Microfluidic Lab-on-a-Chip for Biomedical Applications", **Qingdao University**, College of Life Sciences, Qingdao, China; June 26, 2018.
34. "Microfluidic Lab-on-a-Chip and Nanotechnology for Biomedical Applications", **Tianjin Institute of Industrial Biotechnology**, CAS, China; June 13, 2018.

33. “Microfluidic Lab-on-a-Chip and Nanotechnology for Biomedical Applications”, **University of Texas at San Antonio and UT Health Science Center at San Antonio**, San Antonio, TX, USA; April 6, 2018.
32. “Microfluidic Lab-on-a-Chip and nanotechnology for low-cost bioanalysis”, **Wichita State University**, Wichita, KS, USA; February 22, 2018.
31. “Microfluidic Lab-on-a-Chip and nanotechnology for biochemical & environmental analysis”, **New Jersey Institute of Technology**, Newark, NJ, USA; January 18, 2018.
30. “Hybrid Microfluidic Devices/Bioreactors for Rapid Detection of Pathogenic Microorganisms”, Department of Chemistry”, **Tanjin University**, Tianjin, China; October 16th, 2017.
29. “Microfluidic Lab-on-a-chip and Nanotechnology for Biomedical Applications”, **Tsinghua University**, Beijing, China; October 12th, 2017.
28. “Paper/PDMS Hybrid Microfluidic Platforms for Infectious Disease Diagnosis”, College of Health Sciences “Healthy Exchange Lecture” Series, **University of Texas at El Paso**, Texas, USA; March 22, 2017.
27. “Microfluidic Lab-on-a-chip and Nanotechnologies for Biochemical Sensing”, Department of Chemistry, **University of Texas at El Paso**, El Paso, USA; October 3rd, 2016.
26. “Hybrid microfluidic Lab-on-a-Chip and nanotechnologies for low-cost disease diagnosis”, **Xiamen University**, Xiamen, China; June 20, 2016.
25. “Hybrid microfluidic Lab-on-a-Chip and nanotechnologies for low-cost disease diagnosis”, **Northeastern University**, Shenyang, China; June 15, 2016.
24. “Hybrid microfluidic Lab-on-a-Chip and nanotechnologies for low-cost disease diagnosis”, Dalian University, Dalian, China; June 13, 2016.
23. “Go Hybrid? –Paper/polymer hybrid microfluidic biochips for rapid infectious disease diagnosis”, **Indiana University, Bloomington**, IN, USA; May 24, 2016.
22. “Go Hybrid? –Paper/polymer hybrid microfluidic biochips for rapid infectious disease diagnosis”, **Sothern Illinois University, Carbondale**, IL, USA; March 25, 2016.
21. “Microfluidic and nanosensing platforms for infectious disease diagnosis”, **Georgia Institute of Technology, Atlanta**, GA, USA; March 10th, 2016.
20. “Go Hybrid? –Paper/polymer hybrid microfluidic biochips for rapid infectious disease diagnosis”, **University of California, River Side**, CA, USA; November 19, 2015.
19. “Go Hybrid? –Paper/polymer hybrid microfluidic devices for disease diagnosis”, **New Mexico State University**, Las Cruces, NM, USA; November 13, 2015.
18. “Portable microfluidic chips for bioanalysis and environmental analysis”, **Nankai University**, Tianjin, China; August 3rd, 2015.
17. “Portable microfluidic chips for bioanalysis and environmental analysis”, **Shandong University**, Jinan, China; July 22nd, 2015.
16. “Paper/polymer hybrid microfluidic biochips for infectious disease diagnosis”, **Tsinghua University**, Beijing, China; July 16th, 2015.
15. “Paper/polymer hybrid microfluidic biochips for point-of-care diagnosis of infectious diseases”, **Peking University**, Beijing, China; July 15th, 2015.
14. “Paper/polymer hybrid microfluidic biochips for point-of-care diagnosis of infectious diseases”, Department of Chemistry, **Simon Fraser University**, Burnaby, Canada; May 22nd, 2015.
13. “Biochemical analysis using microfluidic platforms”, College of Environmental Science and Technology, **Shandong University**, Jinan, China; January 6th, 2014.
12. “Biological analysis using microfluidic devices”, State Key Laboratory of Bioreactor Engineering, **East China University of Science and Technology**, Shanghai, China; December 26th, 2013.

11. “Biological analysis using microfluidic platforms”, Department of Chemistry, **Beijing Normal University**, Beijing, China; December 20th, 2013.
10. “Bioanalysis using microfluidic lab-on-a-chip platforms”, Department of Biology, Border Biomedical Research Center (BBRC), **University of Texas at El Paso**, El Paso, USA; March 1st, 2013.
9. “Bioanalysis on Microfluidic Lab-on-a-chip Platforms”, School of Chemistry and Chemical Engineering, **Shandong University**, Jinan, China; May 26, 2011.
8. “Bioanalysis on Microfluidic Lab-on-a-chip Platforms”, Department of Chemistry, **Tsinghua University**, Beijing, China; May 24, 2011.
7. “Bioanalysis on Microfluidic Lab-on-a-chip Platforms”, College of Science, **China Agriculture University**, Beijing, China; May 24, 2011.
6. “High-performance capillary electrophoresis”, Department of Chemistry & Biochemistry, **Duquesne University**, Pittsburgh, USA; April 20, 2011.
5. “Bioanalysis using microfluidic Lab-on-a-chip systems”, Department of Chemistry & Biochemistry, Duquesne University, Pittsburgh, USA; April 6, 2011.
4. “Biological & biomedical assays on microfluidic platforms”, Department of Chemistry, **Brandon University**, Brandon, Canada; Mar. 30, 2011.
3. “Biological assays using microfluidic systems”, Department of Chemistry, **University of Texas**, El Paso, USA; Mar. 21, 2011.
2. “Bioanalysis in microfluidic systems”, Department of Chemistry & Chemical Biology, **McMaster University**, Hamilton, Canada; Jan 20, 2011.
1. “Dynamic single-cell analysis using microfluidic biochips pertaining to drug discovery”, **Institute of Oceanology**, Chinese Academy of Sciences, Qingdao, China; Oct. 14, 2009.

Mentoring:

a. Postdoctoral Fellows and Visiting Professors mentored (10):

Name	Time Period	Position	Current Position	Institution
Qunqun Guo	2018-present	Visiting Prof		
Xiaofeng Wei	2016-present	Postdoc		
Rui Zeng	2016-2017	Visiting Prof	Associate Professor	
Sai Krishna Katla	2015-2017	Postdoc	Research Associate	Harvard University
Jie Zhang	2016-2017	Postdoc		
Guanglei Fu	2014-2016	Postdoc	Associate Professor	NingBo University, China
Sudhakaraprasad Kariate	2014-2015	Postdoc	Assistant Professor	Yenepoya University, India
Ken Cheung	2012-2013	Visiting Prof	Associate Professor	Fresno Pacific University, USA
Feng Shen	2012	Visiting Prof	Associate Professor	Beijing University of Technology, China
Peng Zuo	2012-2013	Postdoc	Associate Professor	East China University of Science & Technology, China

b. Ph.D. Students & Candidates mentored (8):

Name	Major	Time Period	Awards etc.	Current Position	Institution
Stefani Perez	BME	2018-present			
Lei Ma	CHEM	2017-present			
Hamed Tavakoli	CHEM	2017-present	2018 UTEP Graduate Scholarship		
Wan Zhou	CHEM	2015-present	2017, 2018 UTEP Graduate Scholarship		
Gilberto Henao-Pabon	BME	2014-present			

Qijie Jin	CHEM	2017-2018		Visiting Ph.D.	Nanjing Tech University
Sharma Sanjay	CHEM	2013-2018	Best Dissertation Award: Graduate Award for Academic and Research Excellence in Chemistry		
Maowei Dou	CHEM	2012-2016	Best Dissertation Award: Graduate Award for Academic and Research Excellence in Chemistry	Postdoc	Pacific Northwest National Laboratory (PNNL)

c. Master's Students & Candidates mentored (4):

Name	Major	Time Period	Current Position	Institution
Andrea	BME	2018-Present		
Oscar Garcia	BME	2014-present	On leave	
Misael Rios	BME	2014-present	On leave	
Juan Sanchez	BME	2013-2014	Project Manager	Viva Environmental, Inc.

d. Select undergraduate students & Visiting Scholars mentored (>42, as of 09/01/2018):

Name	Time	Awards <i>etc</i>	Current Position	Institution
Cindy Himmelhaver	2017-	Undergraduate Award for Academic and Research Excellence in Biochemistry		
Sergio Barrios	2016-18	2018 UTEP COURI Symposium Poster Award; NIH BUILDING Scholar Thesis	Graduate Student	Rice University
Zayra Dorado	2017-	2017 UTEP COURI Symposium Poster Award; NIH Rising Scholar	Graduate Student	UT Dallas
Atzimba Cases	2016-17	NIH BUILDING Scholar Thesis		
Elvia Padilla Mendez	2015-16	Undergraduate Award for Academic and Research Excellence in Biochemistry;		
Meihan Li	2015-16		Graduate Student	UC San Diego
Carina Ade	2015		Graduate Student	Rice University
Man Luo	2014		Graduate Student	UC San Diego
Elisabeth Hirth	2014		Graduate Student	Harvard University
Natalie Macias	2014	COURI /Provost's Summer Research Assistant Program Award	Graduate Student; Law School	UT Austin
Mengli Feng	2013		Graduate Student	Tsinghua University
Reyna Rey	2013-14	Undergraduate Academic and Research Excellence Award	Medical Student: Podiatric	Kent State University
Angel Rios	2012-13	Outstanding Undergraduate Research Award in Chemistry		
Isaac Torres	2012		Graduate Student	Northwestern University
Gabriel Scott	2012		Medical School student	Texas Tech University

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