

Curriculum Vitae — Bingyun Li, PhD

Table of Contents

Curriculum Vitae — Bingyun Li, PhD	1
Contact Information	2
Research Interest	2
1. Education and Postgraduate/Postdoctoral Training	3
1.1. Education.....	3
1.2. Postgraduate/Postdoctoral Training	3
2. Current and Previous Positions and Appointments.....	3
2.1. Current Academic Positions and Appointments	3
2.2. Current and Previous Administrative Positions and Appointments.....	3
2.3. Previous Academic Appointments	4
2.4. Other Appointments and Positions.....	4
3. Awards and Honors.....	4
3.1. Awards and Honors of Dr. Li.....	4
3.2. Awards and Honors of Dr. Li's Students/Trainees	7
4. Committees and Professional Societies, and Other Services	10
4.1. Professional Societies.....	10
4.2. Institutional Committees	10
4.3. Thesis and Dissertation Committees	10
4.4. Session Chair and Volunteer	11
5. Reviewer and Editorial Board and Editor	13
5.1. Editorial Board and Editor	13
5.2. Ad hoc Reviewer for National and International Conferences	15
5.3. Ad hoc Reviewer for National and International Journals	15
5.4. Review and Study Section	17
6. Grants and Contracts	19
6.1. Current Grants and Contracts.....	19
6.2. Previously Funded Grants and Contracts	19
6.3. Students Grants and Fellowships Mentored.....	22
7. Undergraduate and Graduate Education	25
7.1. Course/Lecture in Classroom Settings	25
7.2. Thesis and Dissertation Directions.....	27
7.3. Students and Trainees Mentored.....	28
8. Invited Lectures and Presentations.....	30
8.1. Invited Lectures and Presentations: International	30
8.2. Invited Lectures and Presentations: National.....	32
8.3. Invited Lectures and Presentations: Local and Institutional	33
9. Patents, Publications, and Book Chapters	34
9.1. Patents and Patent Disclosures	34
9.2. Original Published Peer-Reviewed Articles.....	35
9.3. Non-Peer-Reviewed Invited Publications	39
9.4. Books and Books Edited	39
9.4. Book Chapters.....	39
9.5. Abstracts Presented	40
9.6. Other Presentations at the Department Level or without Abstracts	48

*Curriculum Vitae — Bingyun Li, PhD

Contact Information

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Current Position: Professor with tenure, Department of Orthopaedics, School of Medicine, West Virginia University (WVU)
Director, Nanomedicine Laboratory

Research Interest

- **NanoMedicine and NanoToxicity:**

Nanocoating/capsule, nanoencapsulating live cell, targeting intra-cellular pathogens, nanotoxicity of metal and polymer nanoparticle

- **Drug Development and Infection:**

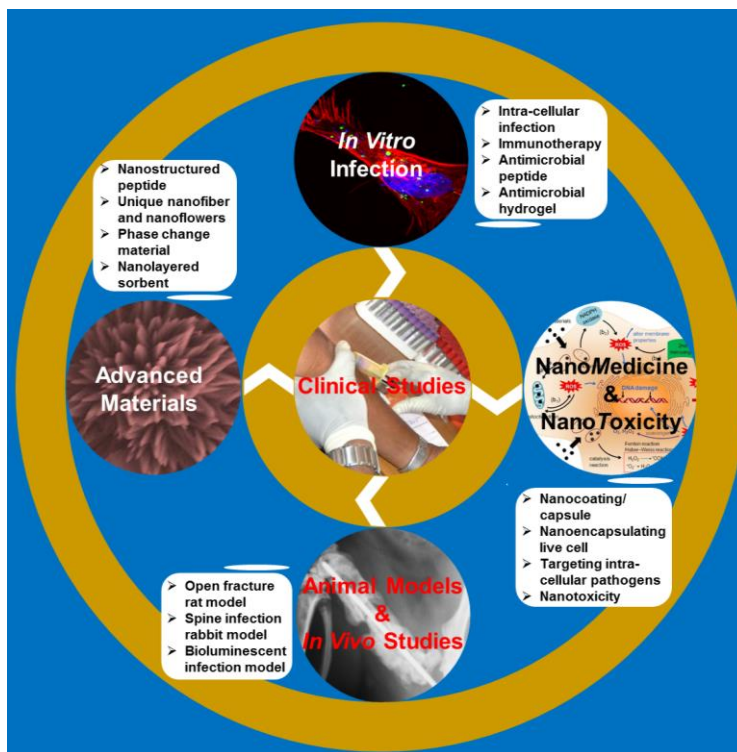
Intra-cellular infection, immunotherapeutic approaches against infection, antimicrobial peptide, and antimicrobial hydrogel

- **Animal Models and *in vivo* Studies:**

Open fracture rat model, spine infection rabbit model, bioluminescent infection model, and intra-tracheal instillation rat model

- **Clinical Studies:** Chronic and recurrent infection

- **Advanced Materials:** Innovative biomaterials; nanostructured peptides, unique nanofibers and nanoflowers, phase-change materials, nanostructured sorbents and cathodes



*Institution recommended form is used.

1. Education and Postgraduate/Postdoctoral Training

1.1. Education

Degree	Institution and location	Field of study	Year(s)
BS	Central South University Changsha, China	Materials Science & Engineering	1990-1994
MS	Institute of Metal Research Chinese Academy of Sciences Shenyang, China	Biomaterials Science and Engineering	1994-1997
PhD	Institute of Metal Research Chinese Academy of Sciences Shenyang, China	Biomaterials	1997-2000

1.2. Postgraduate/Postdoctoral Training

Degree	Institution and location	Field of study	Year(s)
Postdoc.	University of Notre Dame South Bend, IN, USA	Advanced Orthopaedics Biomaterials	2000-2002
Postdoc.	Louisiana Tech University Ruston, LA, USA	Nanotechnology & Protein Engineering	2002-2005

2. Current and Previous Positions and Appointments

2.1. Current Academic Positions and Appointments

Appointment	Year(s)
Professor (with tenure) , Department of Orthopaedics, School of Medicine, West Virginia University (WVU), Morgantown, WV.	2017-present
Approved Graduate Faculty , Health Sciences Center, WVU, Morgantown, WV.	2005-present

2.2. Current and Previous Administrative Positions and Appointments

Appointment/Position	Year(s)
1. Faculty Senator (representing School of Medicine), WVU Faculty Senate, June 2016-June 2019.	2016-2019
2. CTSI Scholar Mentor of a West Virginia Clinical and Translational Science Institute (WVCTSI) Research Scholar (Matthew Dietz, MD, Assistant Professor of Orthopaedics Surgery), July 2016-June 2017. Dr. Li meets monthly with the scholar and the other mentoring team.	2016-2017
3. Committee Member , Research Integrity Committee, WVU.	2016-2017
4. Committee Member , WVU Research and Scholarship Committee, WVU.	2015-2016
5. Faculty Senator (representing School of Medicine), WVU Faculty Senate, June 2014-June 2016.	2014-2016
6. Committee Member , Biomedical Engineering (BMEG) Program committee,	2011-2014

School of Engineering, WVU. The committee successfully launched the first biomedical engineering major at WVU and the first ten students move into the BMEG major in 2014.	
7. Director , Nanomedicine Laboratory, Department of Orthopaedics, School of Medicine, WVU, Morgantown, WV. Dr. Li hosts weekly group meetings with his students and trainees.	2006-present
8. Committee Member , WVNano Combined Faculty Search Committee; more than 10 faculty were hired.	2005-2012

2.3. Previous Academic Appointments

Appointment	Year(s)
Associate Professor with tenure , Department of Orthopaedics, School of Medicine, West Virginia University (WVU), Morgantown, WV.	2011-2017
Adjunct Faculty , Department of Chemical and Biomedical Engineering, School of Engineering and Mineral Resources, WVU, Morgantown, WV.	2006-2016
Faculty Participant , WVNano Initiative, the State of West Virginia's focal point for nanoscale science, engineering and education research, workforce development, and economic development.	2005-2011
Assistant Professor , Department of Orthopaedics, School of Medicine, WVU, Morgantown, WV.	2005-2011

2.4. Other Appointments and Positions

Appointment/Position	Year(s)
Member , WVCTSI.	2012-present
Associate Member , MBRCC Osborn Program, WVU Cancer Center.	2011-present
Guest Researcher , National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention, Morgantown, WV.	2007-2017
Faculty Participant , Drug Discovery and Therapeutics Group, WVU, Morgantown, WV.	2006-2011

3. Awards and Honors

3.1. Awards and Honors of Dr. Li

Award/Honor	Year(s)
1. Dr. Li serves as the Topic Chair of the Infection and Inflammation, Orthopaedic Research Society Program Committee.	2017-2019
2. Dr. Li's abstract titled "Antimicrobial peptide kills bacteria but presents low toxicity toward human cells" received the Star Abstract Award , Orthopaedic Biomaterials SIG, Society for Biomaterials 2017 Annual Meeting, Minneapolis, Minnesota, US.	2017
3. Dr. Li was invited to co-chair the NIH Study Section (teleconference) - BST-M (55): Bioengineering Research Partnerships (U01), April 4, 2017.	2017

4. Dr. Li was awarded a Travel Grant , WVU, March 2017.	2017
5. Dr. Li was invited to serve as the Chair of the Infection and Inflammation Topic Committee by the Orthopaedic Research Society Program Committee. November 15, 2016.	2016
6. Dr. Li and his colleagues (Brock Lindsey, MD and Matthew Dietz, MD) are featured as outstanding collaborators in the Department of Orthopaedics in the August issue of the Office of Research and Graduate Education of the WVU Health Sciences Center. August 2016.	2016
7. Dr. Li was nominated for the Dean's Awards for Excellence in research by Nancy Guo (Professor of Occupational and Environmental Health Sciences, WVU). July 2016.	2016
8. Dr. Li was selected as a CTSI Scholar Mentor of a WV CTSI Research Scholar (Matthew Dietz, MD, Assistant Professor of Orthopaedics Surgery), July 2016-June 2017.	2016
9. Dr. Li was invited by the Chair of the Scientific Program to chair the "Anti-infective biomaterials and device related infections" session at the 10 th World Biomaterials Congress (WBC2016), Montreal, Canada, May 18, 2016.	2016
10. Dr. Li was nominated for the Vice President's Outstanding Achievement in Research and Scholarly Activities Award at Health Sciences Center, WVU, by Dr. Xingbo Liu (Professor and Associate Chair of Research, Department of Mechanical & Aerospace Engineering, WVU) and Ms. Trina Karolchik Wafle (Deputy Director, National Research Center for Coal & Energy and Director, WVU Shared Research Facilities), March 24, 2016. Reference letters were provided by Sanford E. Emery (WVU) and David Hopkinson (DoE).	2016
11. Dr. Li received the International Travel Award from WVU to attend the 10 th World Biomaterials Congress, Montreal, Canada, March 2016.	2016
12. On behalf of Dr. Xingbo Liu, lead of the Electrochemical Systems Research Center, Dr. Li was named, among six researchers (Cheryl Ball, digital publishing; Dan Carder, diesel emissions research; Sally Hodder, clinical and translational sciences; Bingyun Li, electrochemical systems research; Maura McLaughlin, neutron stars and NANOGrav; Sean McWilliams, LIGO and gravitational waves) as Outstanding Researchers at President E. Gordon Gee's special State of the University address in celebrating the University's highest designation of Carnegie Classification of Institutions of Higher Education, March 1, 2016.	2016
13. Dr. Li's collaborative work with Xingbo Liu and Trina Wafle was picked as one of the Crowd Choice Awards for Audience Favorites in Pitch Session 3 at the 2015 TransTech Energy (TTE) Business Development Conference, Morgantown, WV, November 2015. It was presented by Trina Wafle.	2015
14. Dr. Li was included in the 70 th Platinum Anniversary Edition of Marquis Who's Who in America .	2015
15. Dr. Li was awarded a Travel Grant , WVU, March 2015.	2015
16. Dr. Li was invited by the program chair to serve as a moderator of a Spotlight Session titled "Knee OA Repair." ORS Annual Meeting, Las Vegas, NV,	2015

March 28-31, 2015.	
17. Dr. Li's paper titled "Advances in CO ₂ capture technology" received the " Applied Energy Highly Cited Award " with a certificate, March 2015. The award was selected by the Editor-in-Chief and the Publisher as one (represents only 1.75% of papers in the journal during 2012-2013) of the most highly-cited papers published in the <i>Applied Energy</i> journal in 2012-2013.	2015
18. Dr. Li was awarded the Collaborative Exchange Award from the Orthopaedic Research Society (ORS), October, 2013. <u>Only two such awards are given each year to orthopaedic researchers worldwide.</u>	2013
19. Dr. Li was awarded the APOA (Asia Pacific Orthopaedic Association) Pfizer Best Scientific Paper Award at the combined 9 th Asia Pacific Spine Society Congress, 9 th APOA Paediatric Section Congress, and 5 th APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013. <u>Only one award (\$5,000) was given in the whole congress in front of more than 1,000 attendees.</u> The title of the paper is "Intra-cellular <i>Staphylococcus aureus</i> alone causes infection: Direct <i>in vivo</i> evidence". The paper was among three finalists.	2013
20. Dr. Li was an invited faculty presenter at the combined 9 th Asia Pacific Spine Society Congress, 9 th APOA Paediatric Section Congress, and 5 th APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013.	2013
21. Dr. Li received the International Travel Award from WVU to attend the Asia Pacific Orthopaedic Association Congress, Kuching, Malaysia, August 2013.	2013
22. Dr. Li was the only invited speaker at the 2013 Student Night of the American Institute of Chemical Engineers (AIChE)-Pittsburgh Section on Tuesday, February 12, 2013.	2013
23. Dr. Li was accepted for participation in the Early Career Reviewer (ECR) program at the Center for Scientific Review (CSR), National Institute of Health, August 2012.	2012
24. Dr. Li was invited by program chair to co-chair a symposium titled "Advances in metallic biomaterials", 9 th World Biomaterials Congress, June 1-5, 2012, Chengdu, China.	2012
25. Dr. Li received the International Travel Award from WVU to attend the 9 th World Biomaterials Congress, Chengdu, China, May 2012.	2012
26. Dr. Li was an invited speaker at the International Forum of Biomedical Materials: Nanobiomaterials for Tissue Regeneration, Hangzhou, Zhejiang, China, May 2012.	2012
27. Dr. Li was awarded the Berton Rahn Prize from the best known international orthopaedic foundation, AO Foundation, in July 2011. The Berton Rahn Prize Award Committee examines all the final reports and publications resulting from the funded and completed projects and honors the best completed project with CHF 10,000 . <u>Only five researchers worldwide have been awarded since 2009</u> (https://www.aofoundation.org/Structure/research/Berton%20Rahn%20Research-Fund-Prize-Award/Pages/default.aspx). <u>There was a special session to celebrate this Prize and Dr. Li presented his findings in front of more than 300</u>	2011

<u>orthopaedic surgeons worldwide.</u>	
28. Dr. Li was an invited guest presenter at the 2011 AO Foundation Board of Trustees Meeting. IL-12 local delivery for preventing open fracture-associated infection. Berlin, Germany, July 2011.	2011
29. Dr. Li was an invited guest presenter at the 2011 OTC (Osteosynthesis & Trauma Care Foundation) Leadership Forum. Effect of IL-12 on healing in preventing open fracture infection. Madrid, Spain, June 2011.	2011
30. Dr. Li was an invited faculty participant at the AOTrauma Clinical Priority Program on Bone Infection Meeting, Boston, MA, July 2010. Professor George Whitesides at Harvard University was one of the invited faculty participants. The faculty participants were to prioritize and have shaped the future research directions in bone infections in the AOTrauma Clinical Priority Program.	2010
31. Dr. Li was invited to serve as a session moderator at the WV STaR (Science, Technology and Research) Symposium in the topic of “Biological, Biotechnical & Biomedical Sciences”. April 2009, Charleston, WV.	2009
32. Dr. Li received a Faculty Travel Grant from WVU, 2009.	2009
33. Dr. Li was an invited speaker and panelist at the Cool Tech Nanomedicine Event (Northern Virginia Technology Council). McLean, Virginia, 2008.	2008
34. Dr. Li was a participant of the U.S. Bone and Joint Decade’s Young Investigator Initiative (YII) Program.	2007-2008
35. Dr. Li was awarded an NSF Fellowship , NSF Summer Institute on Nano Mechanics and Materials. UCLA, CA.	2007
36. Dr. Li was awarded the Top Director’s Award from the Institute of Metal Research (IMR), Chinese Academy of Sciences.	2000
37. Dr. Li was awarded the Top Presidential Scholarship of Chinese Academy of Sciences (CAS).	1999
38. Dr. Li was awarded the Excellent Dissertation Award , the 3 rd Youth Academic Annual Meeting, Liaoning Province.	1998
39. Dr. Li was awarded the Top Director's Award , IMR, CAS.	1997
40. Dr. Li was awarded the Outstanding Graduate Leadership Award , IMR, CAS.	1995

3.2. Awards and Honors of Dr. Li’s Students/Trainees

Award/Honor	Year(s)
1. Dr. Li’s trainee, Jason Kang (master student), received the First Place Poster Prize in the master graduate category at the Van Liere Research Day, Morgantown, WV, March 2017.	2017
2. Dr. Li’s trainee, Elijah Roberts, was selected to present a poster titled “Nanosilver: An effective treatment for intracellular bacterial infections” at the Undergraduate Research Day at the Capitol, Charleston, WV, Feb. 24, 2017.	2017
3. Dr. Li’s PhD student, Jianhua Yan, PhD, was offered a full professor position at Donghua University, China, February 2017.	2017

4. Dr. Li's trainee, Rutter P, was selected to present a poster titled "Synthesis of silver nanoparticles for biomedical application" at the Undergraduate Research Day at the Capitol, Charleston, WV, Feb. 25, 2016.	2016
5. Dr. Li's PhD student (engineering), Jianhua Yan, was awarded the National Merit Scholarship from the Office of Educational Affairs of the Embassy of PR China in USA, November 2015.	2015
6. Dr. Li's PhD student, Jianhua Yan, was awarded a Doctoral Student Travel Award from the School of Engineering, WVU for the Electrochemical Society (ECS) 228 th meeting, Oct. 10-15, 2015, Phoenix, AZ.	2015
7. One of Dr. Li's trained residents, Andrew Hanselman, MD, was awarded a Resident Research Grant from Orthopaedic Research and Education Foundation (OREF), June 2015.	2015
8. Dr. Li's PhD student, Jianhua Yan, was awarded a Travel Grant from the national Electrochemical Society (ECS) for the ECS 227 th meeting, May 24-28, Chicago, IL.	2015
9. Dr. Li's PhD student, Jianhua Yan, was awarded a Doctoral Student Travel Award from School of Engineering, WVU, March 2015.	2015
10. Dr. Li's trainee, Elias Joseph (MD student), received the Second Place MD Poster Prize at the Van Liere Research Day, Morgantown, WV, Feb. 2015.	2015
11. Dr. Li's PhD student, Andrea Armstead, was offered the Technical Marketing Specialist at QuadTechnologies , Boston, MA, December 2014.	2014
12. Dr. Li's postdoctoral research associate, Xianfeng Wang, PhD, was offered a full professor position at Donghua University, China, December 2014.	2014
13. Dr. Li's PhD student, Andrea Armstead, was awarded the Graduate Student Outstanding Achievement Award from School of Pharmacy, WVU, April 2014.	2014
14. Dr. Li's PhD student, Jianhua Yan, was awarded a Doctoral Student Travel Award from the School of Engineering, WVU, February 2014.	2014
15. Dr. Li's PhD student, Andrea Armstead, was awarded a Graduate Student Travel Award from WVU Health Sciences Center Research and Graduate Education, November 2013.	2013
16. Dr. Li's PhD student, Andrea Armstead, was awarded a Graduate Student Travel Award from School of Pharmacy, WVU, November 2013.	2013
17. One of Dr. Li's trained Research Resident (Andrew Hanselman) was awarded a research grant from WVU's Jon Michael Moore Trauma Center to work on trauma-induced immunosuppression. November 2013.	2013
18. Dr. Li's PhD student, Andrea Armstead, was awarded a competitive renewal of the national Pre-Doctoral Fellowship in the Pharmaceutical Sciences from the American Foundation for Pharmaceutical Education (AFPE), May 2013.	2013
19. Dr. Li's PhD student, Andrea Armstead, received the Second Place Basic Science PhD Student Poster Prize at the Van Liere Research Day, Morgantown, WV, February 2013.	2013
20. Dr. Li's trainee, Peter Farjo (MD student), received the First Place MD Poster	2013

Prize at the Van Liere Research Day, Morgantown, WV, February 2013.	
21. Dr. Li's PhD student, Therwa Hamza, was offered a postdoc position from University of Maryland, December 2012.	2012
22. Dr. Li's PhD student, Andrea Armstead, was awarded the First Place "Most Outstanding Research Presentation" at the 4 th Annual American Association of Pharmaceutical Scientists (AAPS) Pittsburgh Chapters Student Research Symposium, November 2012.	2012
23. Dr. Li's postdoctoral research associate, Bingbing Jiang, PhD, was offered and accepted a full professor position at Hubei University, China, June 2012.	2012
24. Dr. Li's PhD student, Andrea Armstead, was awarded a Pre-Doctoral Fellowship of the Pharmaceutical Sciences in a national competition from the American Foundation for Pharmaceutical Education (AFPE), May 2012.	2012
25. Dr. Li's trainee, Christopher Arena (MD student), received the First Place MD Poster Prize at the Van Liere Research Day, Morgantown, WV, March 2012.	2012
26. Dr. Li's trainee, John Amoroso (MD student), received the Second Place MD Poster Prize at the Van Liere Research Day, Morgantown, WV, March 2012.	2012
27. Dr. Li's PhD student, Therwa Hamza, was awarded a Graduate Student Travel Award , School of Pharmacy, WVU, February 2012.	2012
28. Dr. Li's PhD student, Andrea Armstead, was awarded a renewal of the WVNano Graduate Fellowship, August 2011.	2011
29. Dr. Li's trainee, Danh Pham (MD student), was awarded the Second Place MD Poster Prize at Van Liere Research Day, Morgantown, WV, April 2011.	2011
30. Dr. Li's PhD student, Therwa Hamza, was awarded a Graduate Student Travel Award from the School of Pharmacy, WVU, January 2011.	2011
31. Dr. Li's PhD student, Andrea Armstead, was awarded the WVNano Graduate Fellowship from WVNano initiative, August 2010.	2010
32. Dr. Li's PhD student, Therwa Hamza, was awarded a Student Travel Award from the COST865 2010 Training School to attend the Early Stage Researcher Training Program on Bioencapsulation. Dijon, France, June 29 - July 2, 2010.	2010
33. Dr. Li's undergraduate student, Adly Noore, was awarded an Undergraduate Research Fellowship from WV NASA EPSCoR, May 2010.	2010
34. Dr. Li's trainee, Steven Regal (MD student), was awarded the First Place MD Poster Prize at the Van Liere Research Day, Morgantown, WV, April 2010.	2010
35. Dr. Li's PhD student, Therwa Hamza, was awarded the Best Graduate Student Poster Prize at the WVNano Research Symposium, Morgantown, WV, May 2009.	2009
36. Dr. Li's undergraduate student, Elizabeth DeFusco, was awarded an Undergraduate Research Fellowship from WV NASA EPSCoR, May 2008.	2008
37. Dr. Li's undergraduate student, Heather Ogle, was awarded an Undergraduate Research Fellowship from WV NASA EPSCoR, May 2007.	2007

4. Committees and Professional Societies, and Other Services

4.1. Professional Societies

Role	Society	Year(s)
Topic Chair, Infection and Inflammation	Orthopaedic Research Society (ORS)	2017-2019
Chair	Orthopaedic Biomaterials Special Interest Group (SIG), Society for Biomaterials (SFB)	2017-2019
Chief Editor of ICMRS Newsletter	International Chinese Musculoskeletal Research Society (ICMRS)	2016-present
Active Member	ICMRS	2015-present
Inaugural Treasurer	Chinese Association for Biomaterials (CAB)	2015-present
Active Member	CAB	2015-present
Chair	Orthopaedic Biomaterials Special Interest Group (SIG), Society for Biomaterials (SFB)	2015-2017
Vice-chair	Orthopaedic Biomaterials SIG, SFB	2013-2015
Active Member	American Society for Microbiology (ASM)	2012-present
Active Member	American Chemical Society (ACS)	2011-present
Vice-Chair	Orthopaedic Biomaterials SIG, SFB	2011-2013
Active Member	Orthopaedic Research Society (ORS)	2005-present
Active Member	Society for Biomaterials (SFB)	2005-present
Active Member	Materials Research Society (MRS)	2004-present

4.2. Institutional Committees

Role	Committee	Year(s)
Committee member	Research Integrity Committee, senate faculty, WVU.	2016-2017
Committee member	Research and Scholarship Committee, senate faculty, WVU.	2015-2016
Committee member	Biomedical Engineering (BMEG) Program Committee, School of Engineering, WVU. The committee established the first biomedical engineering major at WVU and the first ten students were recruited in the BMEG major in 2014.	2011-2014
Committee member	WVNano Combined Faculty Search Committee. More than ten faculty were hired.	2005-2012

4.3. Thesis and Dissertation Committees

Role	Committee	Year(s)
Committee Chair	Master student thesis committee of Jason Kang. Kang defended his thesis titled "Effect of Silver	2016-2017

	Nanoparticles on Extracellular and Intracellular Staphylococcus aureus” in August 2017.	
Committee member	Master student thesis committee of Yue Zhou (Engineering). Zhou defended his thesis titled “Enhancing ionic conductivity of solid state electrolytes by oxide glass doping” in July 2016.	2015-2016
Committee member and mentor	PhD student dissertation committee of Jianhua Yan (Engineering). Yan defended his dissertation titled “Rechargeable lithium-sulfur batteries with novel sulfurized carbon electrodes and high sulfur-loading electrodes” in December 2015.	2013-2015
Committee member	Master student thesis committee of Nagasree Garapati (Engineering). Garapati passed her Original Research Proposal titled “PGS (Poly glycerol sebacate) scaffolds for breast reconstruction” in February 2012.	2011-2012
Committee member and Chair	PhD student dissertation committee of Andrea Armstead. Armstead defended her dissertation titled “Understanding the mechanism of hard metal (WC-Co) toxicity: <i>In vitro</i> studies and <i>in vivo</i> exploration” in October 2014.	2010-2014
Committee member and Chair	Master student thesis committee of Yingxue Zhu. Zhu defended her thesis titled “Mechanisms of tungsten carbide-cobalt nanoparticle-induced angiogenesis” in November 2010.	2009-2010
Committee member and Chair	PhD student dissertation committee of Therwa Hamza. Hamza defended her dissertation titled “Infection models of intracellular <i>Staphylococcus aureus</i> and the impact of interleukin 12 on macrophage killing activity” in November 2012.	2008-2012
Committee member	Undergraduate thesis committee of Heather Ogle. Ogle defended her thesis titled “Antimicrobial coatings from layer-by-layer self-assembly” in May 2008.	2006-2008

4.4. Session Chair and Volunteer

Activity	Year(s)
1. Dr. Li was a co-organizer of a two-day symposium - PMSE: Biomaterials Science & Translational Medicine. 254 th ACS Annual Meeting, Washington DC, August 20-24, 2017.	2017
2. Dr. Li was a moderator of “Functional Biomaterials for Sensing, Diagnosis, Imaging & Cancer Nanotechnology” under PMSE: Biomaterials Science & Translational Medicine. 254 th ACS Annual Meeting, Washington DC, August 2017.	2017
3. Dr. Li was an organizer of Orthopaedic Biomaterials sessions. Society for Biomaterials (SFB) Annual Meeting. April 4-8, 2017, Minneapolis, MN.	2017

4. Dr. Li was a moderator of Orthopaedic Biomaterials session 2. Society for Biomaterials (SFB) Annual Meeting. April 6, 2017, Minneapolis, MN.	2017
5. Dr. Li was a moderator of Orthopaedic Biomaterials session 3. Society for Biomaterials (SFB) Annual Meeting. April 6, 2017, Minneapolis, MN.	2017
6. Dr. Li was an organizer and moderator of Translational Orthopaedic Biomaterials session. Society for Biomaterials (SFB) Annual Meeting. April 4-8, 2017, Minneapolis, MN.	2017
7. Dr. Li was an organizer of Panel Discussion: Preventing implant-associated infection. Society for Biomaterials (SFB) Annual Meeting. April 4-8, 2017, Minneapolis, MN.	2017
8. Dr. Li was an organizer and moderator of the Chinese Association for Biomaterials (CAB) Day (Theme: Seeking convergence to advance biomaterials science and translation). Minneapolis, MN, April 5, 2017.	2017
9. Dr. Li was an organizer and moderator of the New Horizon Workshop: Drug Resistance: New Challenges and Opportunities in Biomaterials-associated Orthopaedic Infection, March 21, 8:00 AM-9:30 PM. Orthopaedic Research Society (ORS) Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
10. Dr. Li was an organizer and moderator of the Biomaterials, Biomechanics and Bio-Imaging in Orthopaedics RIG meeting, March 21, 11:45 AM-12:45 PM. Orthopaedic Research Society (ORS) Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
11. Dr. Li was a volunteer in the first whole-day service trip organized by WVU iServe Team to aid WV flood-effected areas and to clean up local housing in the Nichols County area with Team Rubicon and Americorps, July 13, 2016.	2016
12. Dr. Li was invited by the Chair of the Scientific Program to chair the “Anti-infective biomaterials and device related infections” session at the 10 th World Biomaterials Congress (WBC), Montreal, Canada, May 18, 2016.	2016
13. Dr. Li was an organizer and co-moderator (with Lynne Jones) of the inaugural “Biomaterials, Bioimaging, Biomechanics, and Bioengineering in Orthopaedics” Research Interest Group (RIG) meeting and “Approaches to collaboration: Team Science” Panel, sponsored by Orthopaedic Research Society and Society for Biomaterials, Orlando, FL. March 4, 2016.	2016
14. Dr. Li was an organizer and moderator of a panel discussion entitled “Progress and Challenges in Basic Science and Translation of Orthopaedic Biomaterial-Associated Infections”. Society for Biomaterials (SFB) Annual Meeting, Charlotte, NC, April 15-18, 2015.	2015
15. Dr. Li was a moderator of the Spotlight Session “Knee OA Repair” at the ORS Annual Meeting, Las Vegas, NV, March 28-31, 2015.	2015
16. Dr. Li was a lead of a Poster Walking Tour of Biomaterials on March 29, 2015. ORS Annual Meeting, Las Vegas, NV, March 28-31, 2015.	2015
17. Dr. Li has been the faculty advisor for the WVU International Students Soccer Club (http://intersoccerclub.studentorgs.wvu.edu), one of the WVU student organizations, since 2014. The club members play once a week, and has organized friendly soccer tournaments with neighboring universities. For instance, the WVU soccer club played a tournament at University of Virginia on September 20, 2015, and played a tournament at Mylan Park with teams	2014-present

from University of Pittsburgh and Pennsylvania State University on September 10, 2016. In addition, as advised by Dr. Li, the club has registered as a team to volunteer in a future service trip to aid WV flood-affected areas and they are on the waiting list that organized by the WVU iServe Team.	
18. Dr. Li was a poster judge at the WVU Van Lier Research Day, Feb. 2014.	2014
19. Dr. Li was a poster judge at the WVU Van Lier Research Day, Feb. 2013.	2013
20. Dr. Li was a co-chair of the symposium titled “Advances in metallic biomaterials” at the 9 th WBC, June 1-5, 2012, Chengdu, China.	2012
21. Dr. Li was a moderator of a symposium entitled “Cell signaling: Molecular, topographic and mechanical cues”. Society for Biomaterials (SFB) Annual Meeting, New Orleans, LA, October 4-6, 2012.	2012
22. Dr. Li was a poster judge at the WVU Van Lier Research Day, March 2011.	2011
23. Dr. Li was a session moderator of the Biological, Biotechnical & Biomedical Sciences at the WV STaR (Science, Technology and Research) Symposium, April 2009, Charleston, WV.	2009
24. Dr. Li organized and chaired a symposium titled “Biomimetics and nanoscience: advances in protein/peptide-based biomaterials” at the SFB Annual Meeting, Chicago, IL, April 2007.	2007

5. Reviewer and Editorial Board and Editor

5.1. Editorial Board and Editor

Disclosure: Dr. Li’s role in these editorial boards and editors is very small. These are new open access journals and Dr. Li’s current role is to assist as an editor to handle some manuscripts *occasionally* and may also simply help to review manuscripts for these journals.

Position	Journal Title/Website	Year(s)
Editorial board member	Journal of Orthopaedics and Skeletal Medicine http://www.scienceinquest.org/journal-of-orthopaedics-and-skeletal-medicine/journal-home.php	2017-present
Editorial board member	SF Journal of Nanochemistry and Nanotechnology https://scienceforecastoa.com/	2017-present
Editorial board member	Journal of Orthopadics & Bone Disorders https://medwinpublishers.com/JOBD/editorial-board.php	2017-present
Editorial board member	International Journal of Clinical Case Studies http://www.graphyonline.com/journal/journal_home.php?journalid=IJCCS	2017-present
Editorial board member	Austin Orthopedics	2017-present
Editorial board member	Journal of Indian Orthopaedic Rheumatology Association	2017-present
Editorial board member	Annals of Nanoscience and Nanotechnology	2017-present
Editorial board member	NJ Orthopaedics http://nessapublishers.com/view-journal.php?id=23/NESSA-Journal-of-Orthopaedics-	2017-present

	(NJO)	
Editorial board member	International Journal of Orthopaedic Studies http://www.inscienz.com/journals/orthopaedics/editorialboard.php	2017-present
Editorial board member	Journal of Fractures and Sprains https://www.jsmedcentral.com/FracturesSprains/editors.php	2016-present
Editorial board member	Austin Immunology http://austinpublishinggroup.com/austin-immunology/editorialBoard.php	2016-present
Editorial board member	Journal of Bone Biology and Osteoporosis http://www.gratisoa.org/journals/index.php/JBO/about/editorialTeam	2015-present
Editorial board member	JBR Journal of Translational Clinical Case Reports and Family Physician http://scidoc.org/editorial_board.php?id=40	2015-present
Editorial board member	Journal of NanoMedicine and Applications http://sciencescript.org/jnma/review-team?members_page=2	2015-present
Editorial board member	Journal of Orthopedic Research & Physiotherapy http://www.heraldopenaccess.us/journals/Orthopedic-Research-&-Physiotherapy/editorial-board.php	2015-present
Editorial board member	British Journal of Applied Science & Technology http://www.sciencedomain.org/journal/5/editorial-board-members	2014-present
Editorial board member	Science Postprint http://www.spp-j.com/reviewers/editorialboard.php?page=5	2014-present
Editorial board member	Journal of Chemical and Process Engineering http://www.jscholaronline.org/journals/journal-of-chemical-engineering/editorial-board.php	2014-present
Editorial board member	ISRN Biomedical Engineering https://www.hindawi.com/journals/isrn/editors/biomedical.engineering/	2013-present
Editorial board member	World Journal of Orthopaedics http://www.wjgnet.com/2218-5836/EBoardMembers?pageNumber=4	2012-present
Associate Editor	Orthopedic & Muscular System http://www.omicsonline.org/editorialboard-orthopedic-muscular-system-current-research-open-access.php	2012-present
Associate Editor	Clinical Research on Foot & Ankle http://www.esciencecentral.org/journals/editorialboard-clinical-research-on-foot-ankle-open-access.php	2012-present

Associate Editor	Journal of Biomedical and Bioengineering http://www.bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000246&detail=editorial	2011-present
Editorial board member	Journal of Bioengineering & Biomedical Science http://www.omicsonline.org/editorialboard-bioengineering-biomedical-science-open-access.php	2010-present

5.2. Ad hoc Reviewer for National and International Conferences

Conference Abstracts Review	Year(s)
Abstract reviewer, Orthopaedic Research Society (ORS) Annual Meeting.	2017
Abstract reviewer, Society for Biomaterials (SFB) Annual Meeting.	2017
Abstract reviewer, Orthopaedic Research Society (ORS) Annual Meeting.	2016
Abstract reviewer, Society for Biomaterials (SFB), Minneapolis, MN.	2016
Abstract reviewer, World Biomaterials Congress 2016, Montreal, Canada.	2016
Abstract reviewer, ORS Annual Meeting.	2015
Abstract reviewer, SFB Annual Meeting.	2015
Abstract reviewer, ORS Annual Meeting.	2014
Abstract reviewer, SFB Annual Meeting.	2014
Abstract reviewer, ORS Annual Meeting.	2013
Abstract reviewer, SFB Annual Meeting.	2013
Abstract reviewer, ORS Annual Meeting.	2012
Abstract reviewer, SFB Annual Meeting.	2012
Abstract reviewer, ORS Annual Meeting.	2011
Abstract reviewer, SFB Annual Meeting.	2011
Abstract reviewer, SFB Annual Meeting.	2010
Abstract reviewer, SFB Annual Meeting.	2009
Abstract reviewer, SFB Annual Meeting.	2008
Abstract reviewer, SFB Annual Meeting.	2007
Abstract reviewer, SFB Annual Meeting.	2006

5.3. Ad hoc Reviewer for National and International Journals (dates are not recorded)

Journal Title
1. ACS Applied Materials & Interfaces (Impact Factor/IF=7.504)
2. Acta Biomaterialia (IF=6.319)
3. Advanced Biomaterials (N/A)
4. Advanced Drug Delivery Reviews (IF=11.764)
5. Advanced Functional Materials (IF=12.124)
6. Advanced Materials (IF=19.791)

7. Advanced Science (IF=9.034)
8. Advanced Science Letters (N/A)
9. Antimicrobial Agents and Chemotherapy (IF=4.302)
10. Applied Physics Letter (IF=3.411)
11. Applied Sciences (IF=1.679)
12. Bioactive Materials (N/A)
13. Biologics: Targets & Therapy (N/A)
14. Biomacromolecules (IF=5.246)
15. Biomaterials (IF=8.402)
16. Biomedical Engineering-Applications, Basis and Communications (BME) (N/A)
17. Biotechnology and Bioengineering (IF=4.481)
18. Biotechnology Research International (N/A)
19. British Microbiology Research Journal (N/A)
20. Carbohydrate Polymers (IF=4.811)
21. Cellular Physiology and Biochemistry (IF=5.104)
22. Chemical Engineering Journal (IF=6.216)
23. Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders (N/A)
24. Clinical Orthopaedics and Related Research (CORR) (IF=3.897)
25. Energy & Fuels (IF=3.091)
26. European Cells & Materials (IF=3.343)
27. European Polymer Journal (IF=3.531)
28. Fuel (IF=4.601)
29. Infection and Immunity (IF=3.593)
30. International Journal of Biomedical Nanoscience and Nanotechnology (N/A)
31. International Journal of Interferon, Cytokine and Mediator Research (N/A)
32. International Journal of Nanomedicine (IF=4.3)
33. Journal of Antimicrobial Chemotherapy (IF=5.071)
34. Journal of Biomaterials Science: Polymer Edition (IF=1.9)
35. Journal of Biomedical Materials Research B (IF=3.189)
36. Journal of Biomedical Nanotechnology (IF=4.521)
37. Journal of Colloid and Interface Science (IF=4.233)
38. Journal of Interferon & Cytokine Research (IF=2.377)
39. Journal of Materials Chemistry A (IF=8.867)
40. Journal of Materials Chemistry B (IF=4.543)
41. Journal of Microencapsulation (IF=1.543)
42. Journal of Nanoscience and Nanotechnology (IF=4.483)

43. Journal of Orthopaedic Research (IF=2.692)
44. Langmuir (IF=3.833)
45. Macromolecular Bioscience (IF=3.238)
46. Materials Science & Engineering C (IF=4.164)
47. Materials Today (IF=21.695)
48. Microbial Pathogenesis (IF=2.009)
49. Microbiology - Concepts and Applications (N/A)
50. Nanomedicine (UK) (IF=4.727)
51. Nanomedicine: NBM (IF=5.72)
52. Nanoscale (IF=7.367)
53. Nature Communications (IF=12.124)
54. Open Biomaterials Journal (N/A)
55. Orthopaedic Research and Reviews (N/A)
56. PLoS ONE (IF=2.806)
57. Recent Patents on Nanotechnology (IF=0.912)
58. Sensors and Actuators B (IF=5.401)
59. Tissue Engineering (IF=3.485)
60. Toxicology and Applied Pharmacology (IF=3.791)
61. Vaccine (IF=3.235)

5.4. Review and Study Section

Position	Entity	Year(s)
Reviewer (written assessment)	The Food and Health Bureau of The Government of the Hong Kong Special Administrative Region (HKSAR), June 2017.	2017
Reviewer (written assessment)	The Food and Health Bureau of The Government of the Hong Kong Special Administrative Region (HKSAR), May 2017.	2017
Reviewer, panel member, and Co-Chair	NIH Study Section (teleconference) - BST-M (55): Bioengineering Research Partnerships (U01), April 4, 2017.	2017
Reviewer and panel member	RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, Washington, DC. February 28, 2017.	2017
Reviewer and panel member	RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, Washington, DC. August 2, 2016.	2016
Reviewer	Review for AOTrauma's Clinical Priority Program:	2016

	Bone Infection, AO Foundation, August 2016.	
Reviewer and panel member	Research and Scholarship Advancement Grant Review, WVU, April 2016.	2016
Reviewer and panel member	WVCTSI Pilot Grant Review, WVU, March 2016.	2016
Reviewer	Reviewer (call-in), RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, Washington, DC. February 25, 2016.	2016
Reviewer	Orthopaedic Research and Education Foundation (OREF) Resident Research Grant, November 2015.	2015
Reviewer and panel member	NIH Study Section - Biomaterials and Biointerfaces Study Section (BMBI) 2016/01, October 2015.	2015
Reviewer	OREF Clinical Research Grant in Hip and Knee Arthroplasty Infection, August 2015.	2015
Reviewer and panel member	RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, Washington, DC. August 4, 2015.	2015
Reviewer	COST Switzerland at the State Secretariat for Education, Research and Innovation SERI, May 2015.	2015
Reviewer and panel member	Research Funding Development Grant (RFDG) proposal review at WVU, January 2015.	2015
Reviewer	Orthopaedic Research and Education Foundation (OREF) proposal review, November 2014.	2014
Reviewer	Program to Stimulate Competitive Research (PSCoR) program at WVU, November 2014.	2014
Reviewer and panel member	RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, Washington, DC. August 6-7, 2014.	2014
Reviewer and panel member	RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, Washington, DC. Feb. 26-27, 2014.	2014
Reviewer	Orthopaedic Research and Education Foundation (OREF) proposal review, November 2013.	2013
Reviewer and panel member	RRD5 panel of the Rehabilitation Research and Development (RR&D) Program, U.S. Department of Veterans Affairs, November 1, 2013.	2013
Reviewer and panel member	Special Emphasis Panel/Scientific Review Group 2013/10 RRD5 meeting, Musculoskeletal Medical Comorbidity, Rehabilitation Research and Development Program, U.S. Department of Veterans Affairs, August 13, 2013.	2013

Reviewer	Orthopaedic Research and Education Foundation (OREF) proposal review, November 2012.	2012
Reviewer and panel member	NSF Biomedical Engineering Program, October 2010.	2010
Reviewer and panel member	NSF Biomedical Engineering Program, May 2010.	2010
Reviewer	LA EPSCOR Pfund Program, October 2009.	2009
Reviewer and panel member	NSF Biomedical Engineering Program, May 2009.	2009
Reviewer and panel member	NSF Biomedical Engineering Program, March 2009.	2009
In addition, Dr. Li has reviewed proposals for the following 11 funding agencies but did not record the dates: U.S. Army Research Office; U.S. Department of Energy; U.S. Civilian Research and Development Foundation; American Chemical Society Petroleum Research Fund; Research Grant Council (RGC) of Hong Kong; Scottish Clinical Academic Training Fellowships; University of Kentucky CTSA pilot grants; Louisiana Board of Regents; Jeffress Memorial Trust; Wellcome Trust/DBT India Alliance; and Research and Innovation SERI.		

6. Grants and Contracts

6.1. Current Grants and Contracts

Grant/Source/Amount	Year(s)
1. DoD CDMRP Role: Sole PI Total Award Amount: \$300,000 2.0 calendar months	9/1/2017-3/31/2019
2. Osteosynthesis and Trauma Care Foundation Role: PI Total Award Amount: \$50,000 (Direct) 0.6 calendar month	9/1/2016-8/30/2018
3. West Virginia Higher Education Policy Commission Division of Science and Research Role: Co-PI (PI: Xingbo Liu) Total Award Amount: \$1,350,000 (Direct) 1.0 calendar month	7/1/2012-6/30/2017

6.2. Previously Funded Grants and Contracts

Grant/Source/Amount	Year(s)
4. WV NASA EPSCoR Role: PI Total Award Amount: \$20,000 (Total) 1.0 calendar month	5/16/2015-11/11/2016
5. Orthopaedic Research and Education Foundation (OREF) Resident Research Grant Role: Faculty Mentor (PI: Andrew Hanselman) Total Award Amount: \$5,000 (Direct)	7/1/2015-6/30/2016
6. West Virginia Clinical and Translational Science Institute (WVCTSI) Pilot	7/1/2015-

Grants Program Role: Co-PI (PI: Sanford Emery) Total Award Amount: \$5,000 (Direct)	6/30/2016
7. WV NASA EPSCoR Role: PI Total Award Amount: \$40,000 (Total)	5/16/2015- 5/15/2016
8. WVHEPC (West Virginia Higher Education Policy Commission) Division of Science and Research Role: Sole PI Total Award Amount: \$6,000 (Direct)	6/1/2014- 5/31/2015
9. Jon Michael Moore Trauma Center Resident Research Grant, WVU Role: Faculty Mentor (PI: Andrew Hanselman) Total Award Amount: \$1,000 (Direct)	11/1/2013- 6/30/2014
10. 2013 RII PUI/CTC Research Incubator Grants Program Role: Faculty mentor and Co-PI (PI: Charlie Chen) Total Award Amount: \$100,000 (Direct)	9/1/2013- 7/31/2015
11. AO Foundation Role: PI Total Award Amount: \$128,000 (Direct)	2/1/2013- 1/31/2016
12. DoE/NETL Role: Sole PI Total Award Amount: \$179,000 (Total)	11/15/2012- 12/31/2014
13. 2011 RII PUI/CTC Research Incubator Grants Program Role: Faculty mentor and Co-PI (PI: Charlie Chen) Total Award Amount: \$100,000 (Direct)	9/1/2011- 8/31/2013
14. WVU internal grant Role: PI Total Award Amount: \$15,000 (Direct)	3/15/2011- 3/14/2012
15. DoE/NETL Role: Sole PI Total Award Amount: \$100,000 (Total)	11/15/2011- 11/14/2012
16. DoE/NETL Role: Sole PI Total Award Amount: \$122,000 (Total)	11/15/2011- 11/14/2012
17. DoE/NETL Role: Sole PI Total Award Amount: \$100,000 (Total)	11/15/2010- 11/14/2011
18. DoE/NETL Role: Sole PI Total Award Amount: \$122,000 (Total)	11/15/2010- 11/14/2011
19. NSF DMR Role: Co-Investigator (Lead investigator of one of the six pilot projects); Lederman, Holcomb, Holland, Urazhdin, Wu, PIs Total Award Amount: \$468,389 (Total)	10/21/2010- 10/20/2011

20. NSF EPSCoR Role: Co-Investigator with 41 other WVNano faculty participants Total Award Amount: \$20,000,000 (Total)	7/1/2010- 6/30/2015
21. WV NASA EPSCoR Role: Sole PI Total Award Amount: \$20,000 (Total)	5/16/2010- 5/15/2011
22. WV NASA EPSCoR Role: Sole PI Total Award Amount: \$10,000 (Total)	5/16/2010- 5/15/2011
23. WV NASA EPSCoR Undergraduate Research Fellowship Role: Faculty Mentor (PI: Adly Noore) Total Award Amount: \$5,000 (Direct)	5/16/2010- 5/15/2011
24. DoE/NETL Role: Sole PI Total Award Amount: \$153,000 (Total)	1/15/2010- 12/31/2010
25. DoE/NETL Role: Sole PI Total Award Amount: \$27,000 (Total)	11/15/2009- 1/14/2010
26. NIH R01 (National Heart, Lung and Blood Institute) 7R01HL091456-02 Role: Subcontract PI (PI: Bing-Hua Jiang) Total Award Amount: \$849,700 (Total)	7/1/2009- 6/30/2011
27. WVU PSCoR Role: Sole PI Total Award Amount: \$33,000 (Direct)	1/16/2009- 1/15/2010
28. Osteosynthesis and Trauma Care Foundation Role: PI Total Award Amount: \$50,000 (Direct)	1/1/2009- 12/31/2010
29. DoE/NETL (renewal) Role: Sole PI Total Award Amount: \$208,200 (Total)	10/31/2008- 11/14/2009
30. WV NASA EPSCoR Role: Faculty Mentor (PI: Elizabeth DeFusco) Total Award Amount: \$5,000 (Direct)	5/16/2008- 5/15/2009
31. DoE/NETL (renewal) Role: PI Total Award Amount: \$150,000 (Total)	1/1/2008- 10/31/2008
32. NSF Role: Sole PI Total Award Amount: \$16,000 (Total)	11/01/07- 10/31/09
33. AO Foundation Role: PI Total Award Amount: \$100,000 (Direct)	8/1/2007- 7/31/2009
34. WV RCG Role: Co-Investigator (PIs: Barbero, Bachlechner, Cairns, Liu, Wu)	7/1/2007- 6/30/2012

Total Award Amount: \$1,800,000 (Total)	
35. WVU Senate Grant Role: Sole PI Total Award Amount: \$13,000 (Direct)	7/1/2007- 6/30/2008
36. WV NASA EPSCoR Role: Faculty Mentor (PI: Heather Ogle) Total Award Amount: \$5,000 (Direct)	5/16/2007- 5/15/2008
37. WV NASA EPSCoR Role: Sole PI Total Award Amount: \$26,000 (Total)	5/16/2007- 5/15/2008
38. WVU International Programs Role: Sole PI Total Award Amount: \$1,500 (Direct)	5/1/2007- 6/30/2007
39. DoE/NETL Role: PI Total Award Amount: \$182,000 (Total)	1/1/2007- 12/31/2007
40. WVU PSCoR Role: Sole PI Total Award Amount: \$25,000 (Direct)	8/1/2006- 7/31/2007
41. WV NASA EPSCoR Role: Sole PI Total Award Amount: \$10,000 (Total)	8/1/2006- 7/31/2007
42. NSF EPSCoR Role: Li Co-investigator (Total 42 senior investigators) Total Award Amount: \$10,799,903 (Total)	5/8/2006- 6/30/2010
43. Nanoconduction Inc. Role: Sole PI Total Award Amount: \$21,000 (Total)	9/16/2005- 12/15/2005
44. DMI, NSF-NER Role: Co-Investigator (PI: Donald Haynie) Total Award Amount: \$100,000 (Total)	8/15/2004- 7/31/2005

6.3. Students Grants and Fellowships Mentored

Grant/Source/Amount	Years
1. Project Title: Treating <i>Staphylococcus aureus</i> biofilm with silver nanoparticles and conventional antibiotics (Student: Paul-Orecchio A from Bethany College) Source of Support: Inbre Total Award Amount: \$3,500	5/30/17- 7/27/17
2. Project Title: Biofilms and innovative treatments (Student: Joseph Hare) Source of Support: INTRO Program Total Award Amount: \$4,000 (Co-mentored with Matthew Dietz)	6/8/17-8/4/17
3. Project Title: Antimicrobial and toxicity of nanosilver (Student: Krystal Hughes)	10/17/16- 4/30/17

Source of Support: INBRE internship for HSTA scholars Total Award Amount: \$3,750	
4. Project Title: Nano-silver for intracellular diseases (Student: Elijah Roberts from West Virginia State University) Source of Support: Inbre Total Award Amount: \$2,200	5/23/2016- 7/25/2016
5. Project Title: Examine the antimicrobial and toxicity properties of a new antimicrobial peptide (Student: Christopher Bell) Source of Support: INTRO Program Total Award Amount: \$4,000	6/8/2016- 8/5/2016
6. Project Title: Examining small colony variants under various possible clinical conditions (Student: Derek Andreini) Source of Support: INTRO Program Total Award Amount: \$4,000	6/8/2016- 8/5/2016
7. Project Title: Synthesis of silver nanoparticles for biomedical application (Student: Paige Rutter from WV Wesleyan) Source of Support: Inbre Total Award Amount: \$5,000	5/26/2015- 7/27/2015
8. Project Title: Identifying small colony variants of <i>Staphylococcus aureus</i> in infected osteoblasts (Student: Kalin Fisher) Source of Support: INTRO Program Total Award Amount: \$4,000	6/9/2015- 8/7/2015
9. Project Title: Examine the bactericidal effects of antimicrobial peptides on intracellular <i>Staphylococcus aureus</i> (Student: Samantha Bleull) Source of Support: INTRO Program Total Award Amount: \$4,000	6/9/2015- 8/7/2015
10. Project Title: Mechanisitic studies on nanotoxicity related to organic and inorganic nanoparticle exposure Source of Support: American Foundation for Pharmaceutical Education (renewal) Total Award Amount: \$6,500	9/1/2013- 8/31/2014
11. Project Title: Mechanisitic studies on nanotoxicity related to organic and inorganic nanoparticle exposure Source of Support: American Foundation for Pharmaceutical Education Total Award Amount: \$6,500	9/1/2012- 8/31/2013
12. Project Title: Effect of trauma on immune cell responses in a rat open femur fracture model (Student: Varun Badami; Lindsey PI) Source of Support: Van Liere Program Total Award Amount: \$1,000	6/10/2013- 8/9/2013
13. Project Title: Exogenous IL-12 enhances the bactericidal activities of neutrophils and macrophages isolated from animals with open fractures (Student: Alexander Conti) Source of Support: Van Liere Program Total Award Amount: \$1,000	6/10/2013- 8/9/2013
14. Project Title: The potential of amino acid nanoparticles as a form of drug	5/29/2013-

delivery (Student: Colin Winkie) Source of Support: Inbre Total Award Amount: \$1,200	7/29/2013
15. Project Title: Establishment and characterization of bioluminescent biofilms using <i>Staphylococcus aureus</i> and <i>Klebsiella pneumonia</i> (Student: Steven McHenry) Source of Support: WVU SURE Total Award Amount: \$3,500	5/31/2012- 7/26/2012
16. Project Title: Advanced nanoparticles targeting intracellular pathogens (Student: Andrea Armstead) Source of Support: (renewal) WVNano RII Graduate Fellowship Total Award Amount: \$27,000	8/15/2011- 8/14/2012
17. Project Title: Advanced nanoparticles targeting intracellular pathogens (Student: Andrea Armstead) Source of Support: WVNano RII Graduate Fellowship Total Award Amount: \$27,000	8/15/2010- 8/14/2011
18. Project Title: <i>In vitro</i> osteoblast responses induced from <i>Staphylococcus aureus</i> internalization (Student: Michael Ebbert) Source of Support: WVNano SURE Total Award Amount: \$3,500	5/31/2011- 7/28/2011
19. Project Title: Cationic antimicrobial peptides: An effective approach to eliminate intracellular bacteria (Student: Sara Kurian) Source of Support: WV-INBRE Summer Research Program Total Award Amount: \$4,500	5/31/2011- 7/28/2011
20. Project Title: Cationic antimicrobial peptides: A novel treatment for bacterial infections (Student: Adly Noore) Source of Support: WV NASA EPSCoR Total Award Amount: \$5,000	5/16/2010- 5/15/2011
21. Project Title: Antimicrobial peptides inhibiting bacterial colonization (Student: Adly Noore) Source of Support: WVNano SURE Total Award Amount: \$3,500	6/1/2010- 7/29/2010
22. Project Title: Catch me if you can: The elimination of intracellular <i>Staphylococcus aureus</i> with PLGA nanoparticles containing gentamicin (Student: Stephanie Knittle) Source of Support: WVNano SURE Total Award Amount: \$3,500	6/8/2009- 7/31/2009
23. Project Title: Development of a novel “3 in 1” drug delivery system (Student: Elizabeth DeFusco) Source of Support: WV NASA EPSCoR Total Award Amount: \$5,000	5/16/2008- 5/15/2009
24. Project Title: Polypeptide nano-coatings for prevention of implant associated infection (Student: Stephanie Knittle) Source of Support: WVNano SURE Total Award Amount: \$3,500	6/2/2008- 7/25/2008

25. Project Title: Nano-engineering advanced drug delivery systems (Student: Elizabeth DeFusco) Source of Support: WVNano SURE Total Award Amount: \$3,500	6/2/2008-7/25/2008
26. Project Title: Study the effects of nanotechnology coatings on inhibiting bacterial growth (Student: Heather Ogle) Source of Support: WV NASA EPSCoR Total Award Amount: \$5,000	5/16/2007-5/15/2008
27. Project Title: Biocompatible nanocoating for improving osteoblast cell adhesion and proliferation (Student: Elizabeth DeFusco) Source of Support: WVNano SURE Total Award Amount: \$3,500	6/2/2007-7/25/2007
28. Project Title: Biomedical research: Polypeptide nanocoating for drug loading and <i>in vitro</i> drug release (Student: Rajiv Bhattarai) Source of Support: Spurlock/McClung Research Fellowship Program Total Award Amount: \$4,000	5/30/2006-8/4/2006

7. Undergraduate and Graduate Education

7.1. Course/Lecture in Classroom Settings

Course/Topic/Audience	Year (# of lectures)
Nanomaterials lecture to the IGERT program, 2157 Health Science Center North, 4:30-5:30 PM, October 11, 2016.	2016 (1)
(This was not part of course teaching but Dr. Li would like to include it here) Biomedical science graduate boot camp orientation program (Director: Dr. Lisa Salati). Dr. Li facilitated a journal club presentation with a group of five students from 9:30-10:30 AM, Tuesday, Aug. 9.	2016 (1)
(This was not part of course teaching but Dr. Li would like to include it here) Biomedical science graduate boot camp orientation program (Director: Dr. Lisa Salati). Dr. Li presented "How to read and critique a journal article", 1:00-2:00 PM, Monday, Aug. 8.	2016 (1)
Biomaterials (ChE 382), Spring semester, WVU, Jan 8 to May 3, 2014 (twice per week, total 31 lectures, 75 min/lecture, a total of 14 students). Course Coordinator: Dr. Bingyun Li; Dr. Li gave all the 31 lectures.	2014 (31)
Biomaterials (ChE 382), Spring semester, WVU, Jan 14 to May 10, 2013 (twice per week, total 31 lectures, 75 min/lecture, a total of 8 students). Course Coordinator: Dr. Bingyun Li; Dr. Li gave all the 31 lectures.	2013 (31)
Classroom lectures: Drugs: Bench to Market (Course: PHAR 779), WVU, Feb. 18, 20, and 22, 2013 (50 min/lecture; Dr. Li gave three lectures). Course Coordinator: Dr. Patrick Callery.	2013 (3)
Classroom lectures: Drugs: Bench to Market (Course: PHAR 779), WVU, April 2 and 4, 2012 (50 min/lecture; Dr. Li gave two lectures). Course Coordinator: Dr. Patrick Callery.	2012 (2)

Biomaterials (ChE 382), Spring semester, WVU, Jan 9 to May 5, 2012 (twice per week, total 31 lectures, 75 min/lecture, a total of 14 students). Course Coordinator: Dr. Bingyun Li; Dr. Li gave all the 31 lectures.	2012 (31)
Biomaterials (ChE 382), Spring semester, WVU, Jan 11 to May 5, 2011 (twice per week, total 31 lectures, 75 min/lecture). Course Coordinator: Dr. Bingyun Li; Dr. Li gave all the 31 lectures.	2011 (31)
Classroom lecture: Drug discovery and development (Course: PHAR 779 and CCMD 793L), WVU, April 11, 2011. Course Coordinator: Dr. Patrick Callery.	2011 (1)
Seminar in nanoscience (Course: PHAR 794J), WVU, October 12, 2010. Course Coordinator: Dr. Peter Gannett.	2010 (1)
Classroom lecture: Biomedical engineering (Course: ChE 381), WVU, September 16, 2010. Course Coordinator: Dr. David Klinke.	2010 (1)
Biomaterials (ChE 382), Spring semester, WVU, Jan 11 to May 8, 2010 (twice per week, total 31 lectures, 75 min/lecture). Course Coordinator: Dr. Bingyun Li; Dr. Li gave all the 31 lectures.	2010 (31)
Classroom lecture: Drug discovery and development (Course: PHAR 779 and CCMD 793L), WVU, March 26, 2010. Course Coordinator: Dr. Patrick Callery.	2010 (1)
Classroom lecture: Drug discovery and development (Course: PHAR 779 and CCMD 793L), WVU, March 24, 2010. Course Coordinator: Dr. Patrick Callery.	2010 (1)
Classroom lecture: Introduction to Tissue Engineering (Course: ChE 482), WVU, March 23, 2010. Course Coordinator: Dr. Robin Farmers.	2010 (1)
Classroom lecture to orthopaedic residents: Orthopaedic Basic Science, WVU, July 15, 2009. Orthopaedic Residency Program Coordinator: Cindy Thompson.	2009 (1)
Biomaterials (ChE 293B), Spring semester, WVU, Jan 13 to May 4 th , 2009 (twice per week, total 31 lectures, 75 min/lecture). Course Coordinator: Dr. Bingyun Li; Dr. Li gave all the 31 lectures.	2009 (31)
Classroom lecture: Junior Nanotechnology Seminar I (Course: ENGR 493J), WVU, November 13, 2009. Course Coordinator: Dr. Larry Hornak.	2009 (1)
Classroom lecture: Introduction to Nanotechnology Design (Course: Physics 293), WVU, May 1, 2009. Course Coordinator: Dr. Boyd Edwards.	2009 (1)
Graduate seminar presentation. Department of Microbiology, Immunology, and Cell Biology, Morgantown, WVU, November 12, 2008.	2008 (1)
Classroom lecture: Junior Nanotechnology Seminar I (Course: ENGR 493J), WVU, October 10, 2008. Course Coordinator: Dr. Larry Hornak.	2008 (1)
Classroom lectures: Introduction to Bioengineering (Course: MAE473/EE425), WVU, 2006-2007. Course Coordinator: Dr. Suzanne Lemiere; Dr. Li gave three lectures.	2007 (3)
Graduate seminar presentation, Department of Chemical Engineering, WVU, February 2006.	2006 (1)
Graduate seminar presentation, Department of Mechanical and Aerospace Engineering, WVU, January 2006.	2006 (1)

7.2. Thesis and Dissertation Directions

Thesis/Dissertation/Topic/Role/Student	Years
Dr. Li is the mentor of Jason Kang (Master's student in Clinical & Translational Science, WV CTSI). Thesis title: Nano-silver reduces intra-cellular infection.	2016-2017
Dr. Li was invited and completed an evaluation of a PhD dissertation entitled "Synthesis, Characterization, and Performance Evaluation of Composite Injectable Chitosan Gel as Potential Local Drug Delivery Systems for the Treatment of Osteoarthritis and Cancer", IIT Bombay, Mumbai, IN. March 2016.	2016
Dr. Li was a committee member of Yue Zhou (PhD student at Engineering; Xingbo Liu Chairman). Thesis title: Enhancing ionic conductivity of solid state electrolytes by oxide glass doping. Zhou defended the thesis in July 2016.	2015-2016
Dr. Li was the mentor of Jianhua Yan (PhD student at Engineering; Xingbo Liu was the committee chair because Dr. Li was not allowed to be the chair). Dissertation title: Rechargeable lithium-sulfur batteries with novel sulfurized carbon electrodes and high sulfur-loading electrodes. Yan defended the dissertation in December 2015. Yan received multiple offers before his graduation and went to Berkeley National Lab to be a postdoctoral research associate. He has published seven first author peer-reviewed papers and one 2 nd author peer-reviewed paper.	2013-2015
Dr. Li was a committee member of Nagasree Garapati (Master student at Engineering. Robin Hissam Chair). Garapati defended and passed her Original Research Proposal titled "PGS (Poly glycerol sebacate) scaffolds for breast reconstruction" on February 21 st , 2012.	2011-2012
Dr. Li was the mentor of Sara Kurian (Undergraduate student at Shepherd University, Shepherdstown, WV). Thesis title: Cationic antimicrobial peptides: An effective approach to eliminate intracellular bacteria. Kurian defended the thesis in August 2011.	5/2011-7/2011
Dr. Li was the mentor of Andrea Armstead (PhD student at Health Sciences Center; Li Chairman). Dissertation title: Understanding the mechanism of hard metal (WC-Co) toxicity: <i>In vitro</i> studies and <i>in vivo</i> exploration. Armstead defended the dissertation in October 2014. Armstead received a job offer before graduation and went to a biotech company in Boston. She has published three first author peer-reviewed papers and has three first author papers submitted.	2010-2014
Dr. Li was the mentor of Yingxue Zhu (MS student at Genetics & Developmental Biology Graduate Program; Li Chairman). Thesis title: Mechanisms of tungsten carbide-cobalt nanoparticle-induced angiogenesis. Zhu defended the thesis in December 2010.	2009-2010
Dr. Li was the mentor of Therwa Hamza (PhD student at Health Sciences Center; Li Chairman). Dissertation title: Infection models of intracellular <i>Staphylococcus aureus</i> and the impact of interleukin 12 on macrophage killing activity. Hamza defended the dissertation in November 2012. She received a postdoc offer from University of Maryland before graduation. She has published three first author peer-reviewed papers and one 2 nd author peer-reviewed paper and has two first author papers submitted.	2008-2012
Dr. Li was the mentor of Heather Ogle (Undergraduate student, School of Science;	2006-2008

Li committee member). Thesis title: Antibiotic-eluting nanotechnology coatings for potential prevention of device-associated infections. Ogle defended the thesis in October 2008.	
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7.3. Students and Trainees Mentored

Research residents:

Student/Trainee	Years
1. Phillip A. Bostian, WVU (MD, Department of Orthopaedics)	7/2015-6/2016
2. Jonathan Karnes, WVU (MD, Department of Orthopaedics)	7/2014-6/2015
3. Andrew Hanselman, WVU (MD, Department of Orthopaedics)	7/2013-6/2014
4. John Tidwell, WVU (MD, Department of Orthopaedics)	7/2009-6/2010
5. Claire Beimesch, WVU (MD, Department of Orthopaedics)	7/2008-6/2009
6. Matthew Dietz, WVU (MD, Department of Orthopaedics)	7/2007-6/2008
7. Brandon Boyce, WVU (MD, Department of Orthopaedics)	7/2006-6/2007
8. Brock Lindsey, WVU (MD, Department of Orthopaedics)	7/2005-6/2006

PhD Students:

Student/Trainee	Years
9. Timur Khaliullin, PhD rotation student	8/27/2015-9/18/2015
10. Jianhua Yan, PhD graduate student	1/1/2013-12/31/2015
11. Carrie Long, PhD rotation student	10/19/2011-12/13/2011
12. Amy Mihalchik, PhD rotation student	8/29/2011-10/14/2011
13. Andrea Armstead, PhD graduate student	7/2010-12/2014
14. Andrea Armstead, research rotation	3/2010-5/2010
15. Therwa Hamza, PhD graduate student	7/2008-12/2012
16. Therwa Hamza, PhD student rotation	10/3/2007-11/19/2007
17. Xiaolei Shi, PhD graduate student	1/2006-8/2006

Master's Students:

Student/Trainee	Years
18. Jason Kang, MS in Clinical & Translational Science, WV CTSI	8/16/16-present

MD students:

Student/Trainee	Years
19. Joseph Hare, MS1 INTRO Summer Research Program	6/8/2017-8/4/2017
20. Christopher Bell, MS1 INTRO Summer Research Program	6/8/2016-8/5/2016
21. Derek Andreini, MS1 INTRO Summer Research Program	6/8/2016-8/5/2016
22. Jessica Eiser, MD student	3/2016-5/2016
23. Jason Kang, MD graduate	3/1/2016-8/15/2016
24. Samantha Bleull, MS I, INTRO program	6/9/2015-8/7/2015
25. Kalin Fisher, MS I, INTRO program	6/9/2015-8/7/2015
26. Eli Joseph, Van Liere MD student	6/9/2014-7/31/2014
27. Varun Badami, Van Liere MD student (Lindsey mentor)	6/10/2013-8/9/2013
28. Alexander Conti, Van Liere MD student	6/10/2013-8/9/2013

29. Williams Artrip, Van Liere MD student	6/4/2012-8/3/2012
30. Ketu Patel, Van Liere MD student	6/4/2012-8/3/2012
31. Peter Farjo, Van Liere MD student	6/4/2012-8/3/2012
32. Chris Arena, Van Liere MD student	6/2011-8/2011
33. Jonathan Amoroso, Van Liere MD student	6/2011-8/2011
34. Danh Pham, Van Liere MD student	6/2010-8/2010
35. Steven Regal, Van Liere MD student	6/8/2009-7/31/2009
36. Michael Hagar, Van Liere MD student	6/8/2007-7/31/2007
37. Brian Kellermeyer, Van Liere MD student	6/8/2007-7/31/2007

Undergraduate Students:

Student/Trainee	Years
38. Austin Paul-Orecchio, Bethany College, WV INBRE program	5/30/17-7/27/17
39. Krystal Hughes, INBRE internship for HSTA scholars	10/17/16-4/30/17
40. Elijah Roberts, West Virginia State University, WV INBRE program	5/23/2016-7/25/2016
41. Jake Gregory, pharmacy	3/2016-5/2016
42. Clayton Irvine, pharmacy	3/2016-5/2016
43. Brooke Sanders, pharmacy	3/2016-5/2016
44. Andrew Miller, pharmacy	3/2016-5/2016
45. Ryan Zabrosky, pharmacy	3/2016-5/2016
46. Matt Epperly, microbiology and immunology	3/2016-5/2016
47. Megan Kessell, biology	3/2016-6/2016
48. Noor Mozahem, biology	3/2016-5/2016
49. Paul Fernandes, psychology	3/2016-5/2016
50. Harry Shaffer, engineering	3/2016-5/2016
51. Paige Rutter, INBRE student	5/26/2015-7/27/2015
52. Colin Winkie, INBRE student	5/29/2013-7/29/2013
53. Cheng-lun Wang, biology undergraduate student	5/20/2013-7/29/2013
54. Steven McHenry, WVU SURE student	5/31/2012-8/3/2012
55. Sara Kurian, INBRE student	5/2011-7/2011
56. Michael Ebbert, WVNano SURE student	5/2011-7/2011
57. Adly Noore, NASA EPSCoR Undergraduate Fellowship	8/2010-5/2011
58. Joseph Widmeyer, undergraduate student	7/2010-11/2010
59. Adly Noore, WVNano Sure student	5/2010-7/2010
60. Saba Ashfaq, undergraduate student	3/2010-6/2010
61. Stephanie Knittle, WVNano SURE undergraduate student	6/8/2009-7/31/2009
62. Adly Noore, pre-med student	6/8/2009-7/31/2009
63. Heather Ogle, Research Assistant	7/2008-6/2010
64. Stephanie Knittle, WVNano SURE undergraduate student	6/2/2008-7/25/2008
65. Elizabeth DeFusco, WVNano SURE undergraduate student	6/2/2008-7/25/2008
66. Elizabeth DeFusco, undergraduate student researcher	9/1/2007-5/15/2009
67. Elizabeth DeFusco, WVNano SURE undergraduate student	6/2/2007-7/25/2007
68. Heather Ogle, undergraduate student researcher	9/2006-7/2008
69. Rajiv Bhattarai, Davis and Elkins College	5/2006-8/2006

High School Students:

Student/Trainee	Years
70. Lixiang Tan, Morgantown High School student	6/8/2009-7/31/2009

Postdoctoral and research associates:

Student/Trainee	Years
71. Xianfeng Wang, PhD	6/2012-1/2015
72. Jenny Zheng, MD	5/2010-5/2012
73. Hongshuai Li, MD & PhD	4/2008-2/2010
74. Qinghe Zhao, PhD	5/2007-7/2009
75. Fidele Likibi, PhD	9/2006-9/2007
76. Bingbing Jiang, PhD	2/2006-7/2012

Visiting scholars/professors:

Student/Trainee	Years
77. Peng Cheng, MD, Attending Surgeon, Department of Orthopaedics, Anhui Provincial Hospital, Hefei, Anhui, China	2/9/2017-8/8/2017
78. Qun Xia, MD, Chief Physician, Department of General Surgery, Anhui Provincial Hospital, Hefei, Anhui, China	2/9/2017-8/8/2017
79. Shuai Wang, MD, Attending Physician, Department of Respiratory, First Affiliated Hospital of Dalian Medical University, Dalian, China	6/1/2016-5/31/2017
80. Munzir Alandonisi, MD, Department of Pulmonary and Critical Care, WVU	3/1/2016-6/3/2016
81. Qifei Wang, visiting MD/PhD graduate student, the first affiliated hospital of Sun Yat-Sen University, Guangzhou, China	11/2014-11/2015
82. Fengfeng Wu, MD, visiting orthopaedic physician, Huzhou Central Hospital, Zhejiang, China	10/2014-12/2014
83. Bo Li, PhD, visiting postdoctoral research associate, Alderson Broaddus University, WV	2/2014-4/2014
84. Ke Yang, PhD, visiting professors, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China	1/2009-2/2009
85. Tianying Xiong, PhD, visiting professors, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China	1/2009-2/2009

8. Invited Lectures and Presentations (Presenters are underlined)

8.1. Invited Lectures and Presentations: International

Authors/Title/Conference/Date	Year
1. <u>Li B.</u> <i>Invited Talk</i> . Nanomedicine for Orthopaedic Applications. Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China, June 2015.	2015
2. <u>Li B.</u> <i>Invited Talk</i> . Nanomedicine for biomedical applications. Donghua University, Shanghai, China, June 2015.	2015
3. <u>Li B.</u> , X Wang. <i>Invited Talk</i> . Self-assembly amino acid and peptide nanomaterials. Nanomaterials Research Center, Modern Textile Institute, Donghua University, Shanghai, China, May 2014.	2014
4. <u>Li B.</u> <i>Invited Talk</i> . IL-12 immunotherapy and nanomedicine. Department of	2014

	Materials Science and Engineering, Shanghai Jiaotong University, Shanghai, China, May 2014.	
5.	<u>Li B</u> , Hamza T, Dietz M, Pham D, Clovis N, Danley S, Tidwell J, Jones A. <i>Best paper finalists presentation</i> . Intra-cellular <i>Staphylococcus aureus</i> alone causes infection: Direct <i>in vivo</i> evidence. The combined 9 th Asia Pacific Spine Society Congress, 9 th Asia Pacific Orthopaedic Association (APOA) Paediatric Section Congress, and 5 th APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013.	2013
6.	<u>Li B</u> , Li H, Hamza T, Tidwell J, Clovis N, Danley S. <i>Invited faculty talk</i> . PRP as a new approach to prevent spinal infections: Preparation, and <i>in vitro</i> and <i>in vivo</i> antimicrobial properties of PRP. The combined 9 th Asia Pacific Spine Society Congress, 9 th APOA Paediatric Section Congress, and 5 th APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013.	2013
7.	<u>Li B</u> , Boyce B, Dietz M, Lindsey B, Clovis N, Danley S. <i>Invited faculty talk</i> . Immune modulation and nanocoating technology in the prevention of open fracture-associated infections. The combined 9 th Asia Pacific Spine Society Congress, 9 th APOA Paediatric Section Congress, and 5 th APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013.	2013
8.	<u>Li B</u> . (2012). <i>Invited talk</i> . Nanomedicine for infection prophylaxis. International forum of biomedical materials: Nanobiomaterials for tissue regeneration, 5/29/2012-6/1/2012, Hangzhou, China.	2012
9.	<u>Li B</u> . <i>Invited talk</i> . Layer-by-layer nanoassembly of CO ₂ -capturing solid sorbents. Dalian University of Technology, China, September, 2011.	2011
10.	<u>Li B</u> . <i>Invited talk</i> . IL-12 local delivery for preventing open fracture-associated infection. 2011 AO Foundation Board of Trustees Meeting, Berlin, Germany, July 2011.	2011
11.	<u>Li B</u> . <i>Invited talk</i> . Effect of IL-12 on healing in preventing open fracture infection. 2011 OTC (Osteosynthesis & Trauma Care Foundation) Leadership Forum, Madrid, Spain, June 2011.	2011
12.	<u>Li B</u> . <i>Invited talk</i> . Nano-engineered antibiotic alternatives promising in preventing open fracture-associated infections. AOTrauma Clinical Priority Program on Bone Infection Meeting, Boston, MA, July 23, 2010.	2010
13.	<u>Li B</u> . <i>Invited talk</i> . Nanotechnology for infection prevention. National Institute of Sports Medicine, Beijing, China, August 2009.	2009
14.	<u>Li B</u> . <i>Invited talk</i> . Nanotechnology for biomedical and environmental applications. Soochow University, Suzhou, China, August 2009.	2009
15.	<u>Li B</u> . <i>Invited talk</i> . Nanomedicine in orthopaedics. Donghua University, Shanghai, China, August 2009.	2009
16.	<u>Li B</u> . <i>Invited talk</i> . Self-assembly biomimetic coatings for orthopaedic applications. Zhejiang University, Hangzhou, China, June 2007.	2007
17.	<u>Li B</u> . <i>Invited talk</i> . Nanotechnology for biomedical applications. Dalian Jiaotong University, Dalian, China, June 2007.	2007
18.	<u>Li B</u> . <i>Invited talk</i> . Drug-eluting biomimetic nanocoatings for potential prevention of biomedical device-associated infections. Jilin University, Changchun, China, May 2007.	2007
19.	<u>Li B</u> . <i>Invited talk</i> . Nanotechnology-based biomimetic coatings for	2007

orthopaedic applications. Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China, May 2007.	
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8.2. Invited Lectures and Presentations: National

Authors/Title/Conference/Date	Year
20. <u>Li B.</u> <i>Invited talk.</i> Nanoimmunotherapy reduces implant associated infections. International Biomaterials Symposium, Clemson, SC. April 9-10, 2017.	2017
21. <u>Li B.</u> <i>Invited speaker</i> at the New Horizon Workshop: Drug Resistance: New Challenges and Opportunities in Biomaterials-associated Orthopaedic Infection. Emerging immunotherapeutic approaches against biomaterial-associated infection. Orthopaedic Research Society (ORS) Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
22. <u>Hoffman J,</u> Luebke D, Hopkinson D, Siefert N, Zhang W, Li B, Wang X, Nuwala H, Egbebi F, Resnik K, Roth E. <i>Invited poster presentation.</i> Phase change amino acid solvents for post-combustion CO ₂ capture. NETL CO ₂ Capture Technology Meeting, July 2014, Pittsburgh, PA.	2014
23. <u>Li B.</u> <i>Invited poster presentation.</i> Development and characterization of hybrid ionic liquid sorbents. NETL CO ₂ Capture Technology Meeting, July 2012, Pittsburgh, PA.	2012
24. <u>Li B.</u> <i>Invited talk.</i> Nanomedicine: Localized drug delivery for infection prophylaxis. Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, Baltimore, MD. October 27, 2010.	2010
25. <u>Li B,</u> Jiang B, Duan Y, Fauth D, Gray M, Pennline H. <i>Invited poster presentation.</i> Investigation of amino acids for dry sorbents. NETL CO ₂ Capture Technology Meeting, September 2010, Pittsburgh, PA.	2010
26. <u>Li B.</u> <i>Invited talk.</i> Innovative therapeutic biomaterials: A unique combination of nanotechnology, <i>in vitro</i> , and <i>in vivo</i> studies. Department of Chemical Engineering and CHN/NCOE Nanomanufacturing Center, University of Massachusetts Lowell, Lowell, MA, July 22, 2010.	2010
27. <u>Li B.</u> <i>Invited talk.</i> Nanoengineered therapeutic biomaterials promise in preventing open fracture-associated infections. Department of Chemical & Biomolecular Engineering, Tulane University. New Orleans, LA. March 8, 2010.	2010
28. <u>Li B,</u> Jiang B, Fauth D, Gray M, Pennline H, Richards G. <i>Invited oral and poster presentations.</i> Amino acid and peptide salts for CO ₂ removal. Carbon Capture 2020 Workshop. Hyattsville, Maryland, October 5-6, 2009.	2009
29. <u>Li B,</u> Jiang B, Zhao Q, Lindsey B, Boyce B, Dietz M, Smith ES, Clovis N, Rao KMK. <i>Invited talk.</i> Development of non-antibiotic approaches for infection prevention: Nanoengineering, <i>in vitro</i> , and <i>in vivo</i> studies. Department of Microencapsulation, Nanomaterials, and Process Engineering, Division of Chemistry and Chemical Engineering, Southwest Research Institute, San Antonio, TX. April 24, 2009.	2009
30. <u>Li B.</u> <i>Invited talk.</i> Advanced interleukin-12 microcapsules effective in preventing open fracture associated infection. Cool Tech Nanomedicine Event (Northern Virginia Technology Council), McLean, Virginia, November 18, 2008.	2008

31. <u>Li B.</u> <i>Invited talk.</i> Advanced orthopaedic biomaterials. Smith & Nephew Orthopaedics, Memphis, TN, August 2002.	2002
32. <u>Li B.</u> <i>Invited talk.</i> Combustion synthesis of advanced orthopaedic biomaterials. Stryker Howmedic Osteonics, Allendale, NJ, June 2002.	2002

8.3. Invited Lectures and Presentations: Local and Institutional

Authors/Title/Conference/Date	Year
33. <u>Li B.</u> <i>Invited poster presentation.</i> BioNanoTechnologies contribute to carbon capture and re-utilization. 2016 Governor's Energy Summit: Tackling America's Energy Challenges. West Virginia Division of Energy, Stonewall Resort West Virginia, Roanoke, WV, Oct. 6, 2016.	2016
34. Dr. Li's poster "BioNanoTechnologies contribute to carbon capture and re-utilization." was displayed by Drs. Richard Bajura and Jim Wood for a Capitol Hill "Showcasing Advancements in CCUS Technology" Event as part of a display exhibiting WVU's technical capabilities in Clean Coal Technology. The event was co-hosted by the Coal Utilization Research Council and the US DOE, Washington, DC, Sept. 29, 2016.	2016
35. <u>Li B.</u> <i>Invited poster presentation.</i> Self-assembly and carbon capture. Third Annual Energy and Environmental Research Showcase at WVU (LIINC event), September 4, 2014. Morgantown, WV.	2014
36. <u>Li B.</u> <i>Invited speaker</i> at the 2013 Student Night of the American Institute of Chemical Engineers (AIChE)-Pittsburgh Section, Pittsburgh, Feb. 12, 2013.	2013
37. <u>Li B.</u> , Jiang B, Lindsey BA, McKeague AL. (2011). <i>Invited poster presentation.</i> Innovative immune-tuning technologies for decontaminating traumatic wounds. WVU Office of Technology Transfer event: DOD-related research showcase at WVU. Morgantown, WV. November 15, 2011.	2011
38. <u>Li B</u> (invited; a total of six). <i>Invited poster presentation.</i> Green sorbent technology: Layered solid sorbents for CO ₂ capture. WVU Office of Technology Transfer event: Highlighting Innovation and Commercialization at WVU. Morgantown, WV. October 6, 2011.	2011
39. <u>Hamza T.</u> <i>Invited oral presentation.</i> Interleukin 12: Biological functions and potential clinical applications. Research Day, School of Pharmacy, WVU. Morgantown, WV. October, 2011.	2011
40. <u>Li B.</u> <i>Invited talk.</i> Nanomedicine: Localized drug delivery. Inaugural Research Day, School of Pharmacy, WVU. Morgantown, WV. February 19, 2010.	2010
41. <u>Hamza T.</u> , Li B. <i>Invited seminar presentation.</i> Inflammatory effects of IL-12 on intracellular <i>Staphylococcus aureus</i> . Brown Bag Lunch Series, WVNano Initiative. WVU, February 12, 2010.	2010
42. <u>Li B.</u> , Jiang B, Dietz M, Smith ES, Clovis N, Rao KMK. <i>Invited talk.</i> Developing local cytokine delivery systems for infection prevention in open fractures. WV STaR (Science, Technology and Research) Symposium, Charleston, WV, April 2009.	2009
43. <u>Li B.</u> <i>Invited seminar presentation.</i> Advanced local interleukin-12 therapies effective in preventing open fracture associated infection. Department of Microbiology, Immunology, and Cell Biology, Morgantown, WVU,	2008

November 12, 2008.	
44. <u>Li B.</u> <i>Invited seminar presentation.</i> Nanoengineering polypeptide multilayer films, coatings, and capsules for biological applications. Junior Nanotechnology Seminar I (Course: ENGR 493J), WVU, October 10, 2008.	2008
45. <u>Li B.</u> <i>Invited seminar presentation.</i> Self-assembly nanotechnology-based particles, capsules, and coatings for biomedical applications. National Institute for Occupational Safety and Health (NIOSH), Center for Disease Control, Morgantown, WV, September 2007.	2007
46. <u>Li B.</u> <i>Invited seminar presentation.</i> Biomimetic nanotechnology: nano-engineering polypeptide multilayer nanofilms and micro/nano-capsules for biomedical applications. MBR Cancer Center, WVU, August 2006.	2006
47. <u>Li B.</u> <i>Invited seminar presentation.</i> Biomimetic nanotechnology: nano-engineering polypeptide multilayer nanofilms and microcapsules for biomedical applications. Department of Chemical Engineering, WVU, February 2006.	2006
48. <u>Li B.</u> <i>Invited seminar presentation.</i> Biomimetic nanotechnology: self-assembly and applications of designed polypeptide multilayer nanofilms and microcapsules. Department of Mechanical and Aerospace Engineering, WVU, January 2006.	2006

9. Patents, Publications, and Book Chapters (*Corresponding author)

9.1. Patents and Patent Disclosures

1. Li B, Wang X, Hopkinson D, Hoffman J, Egbebi A, Resnik K. **Non-provisional patent disclosure** (Application # 15/609,373), May 2017.
2. Yan J, Li B, Liu X. **Provisional patent application** to USPTO (Application # 748), November 2016.
3. Li B, Wang X, Hopkinson D, Hoffman J, Egbebi A, Resnik K. **Provisional patent disclosure** (Application # 62/345,282), June 2016.
4. Yan J, Li B, Liu X. **US patent 20160172667 A1**. Date of publication: June 16, 2016.
5. Yan J, Li B, Liu X. **Provisional patent disclosure** (Application # 748), December 2015.
6. Yan J, Li B, Liu X. **Non-provisional patent disclosure** (Application # 62/090,654), December 2015.
7. Yan J, Li B, Liu X. **Provisional patent disclosure** (Application # 62/090,654), December 2014.
8. Li B*, Jiang B, Gray ML, Fauth DJ, Pennline HW, Richards GA. (2014). Layered solid sorbents for carbon dioxide capture. **US patent 8,658,561 B2**. Date of patent: Feb. 25, 2014.
9. Li B*, Jiang B, Fauth DJ, Gray ML, Pennline HW, Richards GA. Layered solid sorbents for CO₂ capture. **Non-provisional patent application** No. 13611651, September 2012.
10. Li B, Jiang B, Fauth DJ, Gray ML, Pennline HW, Richards GA. Layered solid sorbents for CO₂ capture. **Provisional patent application** No. 61/573,746, September 2011.
11. Li B, Jiang B, Lindsey B, Emery SE. Provisional patent filed, WVU, February (2007). **Non-provisional patent** filed, WVU, February (2008)(Patent Application Number: 12/069,526).
12. Varma A*, Mukasyan A, Li B. (2005). Synthesis of orthopaedic implant materials. **US Patent 6,896,846**.

9.2. Original Published Peer-Reviewed Articles (*Corresponding author)

1. Li B*, Webster TJ*. Bacteria antibiotic resistance: New challenges and opportunities for implant-associated orthopedic infections. **J Orthop Res** (IF=2.692). DOI:10.1002/jor.23656.
2. KX Xu, Y Liu, SB Bu, T Wu, Q chang, G Singh, X Cao, C Deng, B Li, G Luo, M Xing. (2017). Egg albumen as a fast and strong medical adhesive glue. **Adv Healthcare Mater** (IF=5.11) 1700132. DOI: 10.1002/adhm.201700132.
3. Armstead AL, Simoes TA, Wang X, Brydson R, Brown A, Jiang BH, Rojanasakul Y, Li B*. (2017). Toxicity and oxidative stress response induced by nano- and micro-CoCrMo particles. **J Mater Chem B** (IF=4.543) 5:5648-57. DOI: 10.1039/C7TB01372H.
4. Cheng H, Yue K, Kazemzadeh-Narbat M, Liu Y, Khalilpour A, Li B, Zhang YS, Annabi N, Khademhosseini A*. (2017). Mussel-inspired multifunctional hydrogel coating for prevention of infections and enhanced osteogenesis. **ACS Appl Mater Interfaces** (IF=7.504) 9:11428-39.
5. Wang Q, Yan J, Yang J, Li B*. (2016). Nanomaterials promise better bone repair. **Materials Today** (IF=21.695) 19(8):451-63.
6. Armstead AL, Li B*. (2016). In vitro inflammatory effects of hard metal (WC-Co) nanoparticle exposure. **Int J Nanomed** (IF=4.3) 11:6195-206.
7. Armstead AL, Li B*. (2016). Nano-toxicity: Emerging concerns regarding nanomaterial safety and occupational hard metal (WC-Co) nanoparticle exposure. **Int J Nanomed** (IF=4.3) 11:6421-33.
8. Yan J, Liu X, Li B*. (2016). Capacity fade analysis of sulfur cathodes in lithium sulfur batteries. **Advanced Science** (IF=9.034) 1600101. DOI:10.1002/advs.201600101. Published online on 21 July 2016.
9. Wang X, Akhmedov NG, Hopkinson D, Hoffman J, Duan Y, Egbebi A, Resnik K, B Li*. (2016). Phase change amino acid salt separates into CO₂-rich and CO₂-lean phases upon interacting with CO₂. **Appl Energy** (IF=7.182) 161:41-7.
10. Yan J, Li B, Liu X*. (2015). Nano-porous sulfur-polyaniline electrodes for lithium-sulfur batteries. **Nano Energy** (IF=12.343) 18:245-52.
11. Yan J, Liu X, Qi H, Li W, Zhou Y, Yao M, Li B*. (2015). High-performance lithium-sulfur batteries with a cost-effective carbon paper electrode and high sulfur-loading. **Chem Mater** (IF=9.466). 27:6394-401.
12. Yan J, Liu X, Yao M, Wang X, Wafle T, Li B*. (2015). Long-life, high-efficiency lithium-sulfur battery from nano-assembled cathode. **Chem Mater** (IF=9.466) 27:5080-7.
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9.3. Non-Peer-Reviewed Invited Publications

77. Zhao Q, Apopa PL, Schwegler-Berry D, Qian Y, Li B*. (2011). Human microvascular endothelial cells uptake nanoparticles. **Biomaterials Forum** 8-9.

9.4. Books and Books Edited

78. Li B*, Webster TJ, editors (2017). **Orthopedic Biomaterials (Volume 1) - Advances and Applications** (a total of 22 chapters). Publisher: Springer (Expected to be published in the end of December 2017).
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9.4. Book Chapters

80. Kang J, Hughes K, Xing M, Li B. Orthopedic applications of silver and silver nanoparticles. In Book “**Orthopaedic Biomaterials**”. Ed. Li B and Webster TJ. Publisher: Springer (submitted).
81. Andreini DE, Werner ZJ, Bell CD, Xing M, Li B. Peptides as orthopaedic biomaterials. In Book “**Orthopaedic Biomaterials**”. Ed. Li B and Webster TJ. Publisher: Springer (submitted).
82. Zhuang Q*, Clements B, Li B. (2017). Emerging new types of absorbents for post-combustion carbon capture, In Book “**Recent Advances in Carbon Capture and Storage**”, Ed. Yongseung Yun. ISBN 978-953-51-3006-2, Print ISBN 978-953-51-3005-5. Publisher: InTech, published March 08, 2017. DOI: 10.5772/62966. P.91-116.
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87. Li B*. (2009). Polypeptide multilayer films and microcapsules. In Book “**Soft Nanomaterials** (ISBN 1-58883-133-7).” Nalwa HS Ed. Vol. 2. American Scientific Publishers, Stevenson Ranch, CA. P.123-50.
88. Li B*, Haynie DT. (2005). Chiral drug separation. In “**Encyclopedia of Chemical Processing**”. Lee S, Ed. Vol. 1, Taylor & Francis, New York. P.449-58.

9.5. Abstracts Presented (Years of oral presentations at national and international conferences are **bold and underlined**, and of poster presentations are *bold and italicized*)

Authors/Title/Conference/Date	Year
1. <u>Li B</u> , Wang Q, Noore J. <i>Oral presentation</i> . Advanced antimicrobial peptides reduce biomaterial-associated infections. PMSE: Biomaterials Science & Translational Medicine. 254 th ACS Annual Meeting, Washington DC, August 2017.	<u>2017</u>
2. <u>Paul-Orecchio A</u> , Kang J, Hare J, Dietz M, Li B. <i>Poster presentation</i> . Treating <i>Staphylococcus aureus</i> biofilm with silver nanoparticles and conventional antibiotics. Annual WV-INBRE Summer Research Symposium-Huntington WV, July 27, 2017.	2017
3. <u>Hughes K</u> , Kang J, Noore J, Li B. <i>Poster presentation</i> . Identifying the antimicrobial efficacy of silver nanoparticles in the treatment of extracellular <i>Staphylococcus aureus</i> . Annual WV-INBRE Summer Research Symposium-Huntington WV, July 27, 2017.	2017
4. <u>Hughes K</u> , Kang J, Noore J, Li B. <i>Poster presentation</i> . Identifying the antimicrobial efficacy of silver nanoparticles in the treatment of extracellular <i>Staphylococcus aureus</i> . The 1 st Annual Undergraduate Spring Symposium at West Virginia University, Morgantown, WV, April 8, 2017.	2017
5. <u>Li B</u> , Wang Q. <i>Oral presentation</i> . Antimicrobial peptide kills bacteria but presents low toxicity toward human cells. Society for Biomaterials (SFB) Annual Meeting, Minneapolis, MN, April 4-8, 2017.	<u>2017</u>
6. <u>Kang J</u> , Hughes, K, Noore J, Li B. <i>Poster presentation</i> . Nanosilver: New approach towards the treatment of extra- and intracellular infections. The E.J. Van Lier Research Day, Morgantown, WV, March 23-24, 2017.	2017
7. <u>Hughes K</u> , Kang J, Noore J, Li B. <i>Poster presentation</i> . Identifying the antimicrobial efficacy of silver nanoparticles in the treatment of extracellular <i>Staphylococcus aureus</i> . The E.J. Van Lier Research Day, Morgantown, WV, March 23-24, 2017.	2017
8. <u>Andreini D</u> , Bell C, Noore J, Li B. <i>Poster presentation</i> . Recovery of <i>Staphylococcus aureus</i> Small Colony Variants. The E.J. Van Lier Research Day, Morgantown, WV, March 23-24, 2017.	2017
9. <u>Bell C</u> , Andreini D, Noore J, Li B. <i>Poster presentation</i> . Unique antimicrobial peptide promise for clinical infection treatment. The E.J. Van Lier Research Day, Morgantown, WV, March 23-24, 2017.	2017
10. <u>Roberts E</u> , Li B. <i>Poster presentation</i> . Nanosilver: An effective treatment for intracellular bacterial infections. The Undergraduate Research Day at the	2017

Capitol, Charleston, WV, Feb. 24, 2017.	
11. <u>Li B</u> , Wang Q, Bleull S, Noore J, Wang J. <i>Poster presentation</i> . A unique synthetic peptide presents potent antimicrobial properties along with low toxicity toward human cells. Orthopaedic Research Society (ORS) Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
12. <u>Kang J</u> , Noore J, Li B. <i>Poster presentation</i> . Nanosilver: New approach towards the treatment of intracellular Staphylococcus aureus. ORS Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
13. <u>Li B</u> , Armstead A. <i>Poster presentation</i> . Toxicity and oxidative stress of nano- and micro-CoCrMo particles. 10 th World Biomaterials Congress (WBC), Montreal, Canada, May 17-22, 2016.	2016
14. <u>Li B</u> , Armstead A. <i>Poster presentation</i> . Toxicity and oxidative stress of nano- and micro-CoCrMo particles in human cells are cell specific. ORS Annual Meeting. March 3-9, 2016, Orlando, FL.	2016
15. <u>Rutter P</u> , Yan J, Wang Q, Noore J, Yang J, and Li B. <i>Poster presentation</i> . Synthesis of silver nanoparticles for biomedical application. The E.J. Van Liere Research Day Morgantown, WV, March 4, 2016.	2016
16. <u>Rutter P</u> , Yan J, Wang Q, Noore J, Yang J, and Li B. <i>Poster presentation</i> . Synthesis of silver nanoparticles for biomedical application. The Undergraduate Research Day at the Capitol, Charleston, WV, Feb. 25, 2016.	2016
17. <u>Li B</u> , Noore J. <i>Poster presentation</i> . Advanced antimicrobial peptides disrupt bacterial biofilms. Materials Research Society (MRS) Fall Annual Meeting, Boston, MA, November 29-December 4, 2015.	2015
18. <u>Yan J</u> , Liu X, and Li B. <i>Oral presentation</i> . High conductive carbon nanofiber-graphite paper electrodes with ultrahigh polysulfide-loading for advanced lithium-sulfur batteries. 228 th meeting, Oct. 10-15, 2015, Phoenix, AZ.	2015
19. <u>Rutter P</u> , Yan J, Noore J, and Li B. <i>Poster presentation</i> . Synthesis of silver nanoparticles for biomedical application. Summer Research Symposium, West Virginia IDEa Network of Biomedical Research Excellence, Huntington, WV, July 27, 2015.	2015
20. <u>Yan J</u> , Liu X, and Li B. <i>Oral presentation</i> . Innovative sulfur-carbon nanotube cathodes for high-performance Li/S batteries. 227 th Electrochemical Society (ECS) Annual Meeting, May 24-28, 2015, Chicago, IL.	2015
21. <u>Li B</u> , Wang X. <i>Poster presentation</i> . Aligned 3D amino acid nanofiber biomaterials. Society for Biomaterials (SFB) Annual Meeting, Charlotte, NC, April 15-18, 2015.	2015
22. <u>Li B</u> , Wang X. <i>Poster presentation</i> . Developing aligned 3D fibrous networks from phenylalanine and its composite nanofibers for orthopaedic applications. ORS Annual Meeting. March 2015, Las Vegas, NV.	2015
23. <u>Li B</u> , Hamza T. <i>Poster presentation</i> . IL-12 enhances bacterial killing efficacy of macrophages against intracellular bacteria. ORS Annual Meeting. March 2015, Las Vegas, NV.	2015
24. <u>Joseph E</u> , Noore J, Li B. <i>Poster presentation</i> . Bactericidal effects of cationic antimicrobial peptide and antibiotics on intra-cellular <i>S. aureus</i> . Van Liere Research Day, Morgantown, WV, February 2015.	2015

25.	<u>Wang X</u> , Chen Y, Li B. <i>Oral presentation</i> . 3D well-aligned fibrous network assembled from amino acid nanofibers via freeze-drying. MRS Annual Meeting, Boston, MA, Nov. 30-Dec. 5, 2014.	<u>2014</u>
26.	<u>Li B</u> , Noore J. <i>Poster presentation</i> . Antimicrobial properties of cationic antimicrobial peptides against intra- and extra-cellular bacteria. MRS Annual Meeting, Boston, MA, Nov. 30-Dec. 5, 2014.	<u>2014</u>
27.	<u>Li B</u> , Farjo P, Hamza T, McConda D, Lindsey B, Clovis N, Smith S. <i>Poster presentation</i> . Creating an infection model using bioluminescent bacteria. 2014 West Virginia Clinical & Translational Science Institute (WVCTSI) Annual Meeting, September 29-30, 2014. Stonewall Resort, Roanoke, WV.	2014
28.	<u>Li B</u> . <i>Poster presentation</i> . Translational infection research: From nanomedicine, to animal models, to clinical studies. 2014 WVCTSI Annual Meeting, September 29-30, 2014. Stonewall Resort, Roanoke, WV.	2014
29.	<u>Yan J</u> , Liu X, and Li B. <i>Oral presentation</i> . Development of lithium sulfur batteries with improved cycle life and high-power properties. 225 th ECS Annual Meeting, May 11-15, 2014, Orlando, FL.	<u>2014</u>
30.	<u>Li B</u> , Noore J, Artrip W, McHenry S. <i>Oral presentation</i> . Effect of LL-37 peptide in disrupting biofilms. SFB Annual Meeting. Apr. 2014, Denver, CO.	<u>2014</u>
31.	<u>Li B</u> , Noore J, Artrip W, McHenry S. <i>Poster presentation</i> . Cationic antimicrobial peptide LL-37 disrupts <i>Staphylococcus aureus</i> biofilms. ORS Annual Meeting. March 2014, New Orleans, LA.	<u>2014</u>
32.	<u>Noore J</u> , Hanselman A, Badami V, Conti A, McConda D, Clovis N, Danley S, Lindsey B, Schafer R, Cuff C, Li B. <i>Poster presentation</i> . Post-traumatic immunosuppression in open fractures and IL-12 therapy. ORS Annual Meeting. March 2014, New Orleans, LA.	<u>2014</u>
33.	<u>Conti A</u> , Noore J, Cuff C, Li B. <i>Poster presentation</i> . Open fracture induced immunomodulations and IL-12 therapy. Feb. 27-28, 2014, Van Lier Research Day, Morgantown, WV.	2014
34.	<u>Badami V</u> , Noore J, Li B, Lindsey B. <i>Poster presentation</i> . Immune cell suppression in open fractures. Feb. 27-28, 2014, Van Lier Research Day, Morgantown, WV.	2014
35.	<u>Armstead A</u> , Li B. <i>Poster presentation</i> . Understanding hard metal (WC-Co) toxicity: Potential role of nanoparticle internalization. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, San Antonio, TX, November 2013.	<u>2013</u>
36.	<u>Armstead A</u> , Li B. <i>Poster presentation</i> . Exploring the systemic effects of hard metal (WC-Co) nanoparticle exposure <i>in vivo</i> . 5 th Annual American Association of Pharmaceutical Scientists (AAPS) Pittsburgh Chapters Student Research Symposium, Pittsburgh, PA, November 2013.	2013
37.	<u>Winkie C</u> , Wang C, Wang X, Li B. <i>Poster presentation</i> . The potential of amino acid nanoparticles as a form of drug delivery. WV-INBRE Summer Symposium, Huntington, WV, July 2013.	2013
38.	<u>Wang X</u> , Akhmedov NG, Duan Y, Luebke D, Li B. <i>Oral presentation</i> . Supported Amino Acid Ionic Liquids for CO ₂ Capture. The International Conference on Carbon Dioxide Utilization (ICCDU) XII 2013, Alexandria, VA, June 2013.	<u>2013</u>
39.	<u>Li B</u> , Jiang B, Wang X. <i>Oral presentation</i> . Amino acid solid sorbents for	<u>2013</u>

post-combustion carbon capture. The International Conference on Carbon Dioxide Utilization (ICCDU) XII 2013, Alexandria, VA, June 2013.	
40. <u>Armstead A</u> , Li B. <i>Poster presentation</i> . Hard metal (WC-Co) Nanoparticles induce cellular toxicity and apoptosis in a dose-dependent manner. 27 th Annual Meeting of the Allegheny-Erie Society of Toxicology Regional Chapter, Morgantown, WV, May 30-31, 2013.	2013
41. <u>Duan Y</u> , Sorescu DC, Luebke DR, Morreale B, Li B, Zhang K, Li X, King D. <i>Oral presentation</i> . Theoretical screening of solid sorbents for CO ₂ capture. The 12 th Annual Carbon Capture, Utilization and Sequestration (CCUS) Conference, Pittsburgh, PA, May 2013.	2013
42. <u>Li B</u> , Farjo, P, Hamza T. <i>Poster presentation</i> . Animal model of open femur-fracture infection using noninvasive in vivo bioluminescence imaging. SFB Annual Meeting, Boston, MA, April 2013.	2013
43. <u>Wang X</u> , Akhmedov NG, Duan Y, Luebke D, Li B. <i>Oral presentation</i> . CO ₂ capture using supported amino acid ionic liquids. 245 th ACS Annual Meeting, New Orleans, LA, April 2013.	2013
44. <u>Wang X</u> , Jiang B, Gray ML, Duan Y, Luebke D, Li B. <i>Oral presentation</i> . Amino acid and amino acid-complex based solid sorbents for CO ₂ capture. 245 th ACS Annual Meeting, New Orleans, LA, April 2013.	2013
45. <u>Duan Y</u> , Sorescu DC, Luebke DR, Morreale B, Li B, Zhang K, Li X, King D. <i>Oral presentation</i> . Theoretical predictions of the thermodynamic properties of solid sorbents in CO ₂ capture reactions. 245 th ACS Annual Meeting, New Orleans, LA, April 2013.	2013
46. <u>Armstead A</u> , Li B. <i>Poster presentation</i> . Hard metal (WC-Co) nanoparticles induce cellular toxicity and apoptosis in a dose-dependent manner. Van Liere Research Day, Morgantown, WV, February 2013.	2013
47. <u>Farjo P</u> , Hamza T, Li B. <i>Poster presentation</i> . Animal model of open femur-fracture infection using noninvasive in vivo bioluminescence imaging. Van Liere Research Day, Morgantown, WV, February 2013.	2013
48. <u>Patel K</u> , Armstead AL, Li B. <i>Poster presentation</i> . Co-culture models to determine toxicity and cellular response to tungsten-carbide cobalt. Van Liere Research Day, Morgantown, WV, February 2013.	2013
49. <u>Li B</u> , Farjo P, Hamza T, McConda D, Lindsey B, Clovis N, Smith S. <i>Oral presentation</i> . Establishment and characterization of an open fracture-associated infection using bioluminescent <i>Staphylococcus aureus</i> . ORS Annual Meeting. January 2013, San Antonio, TX.	2013
50. <u>Li B</u> , Jiang B, Li H. <i>Oral presentation</i> . Surface modification favors osteoblast cells in the race for implant surfaces against bacterial cells. ORS Annual Meeting. January 2013, San Antonio, TX.	2013
51. <u>Armstead A</u> , Li B. <i>Oral presentation</i> . Hard metal (WC-Co) nano-particles induce cellular toxicity and apoptosis in a dose-dependent manner. 4 th Annual American Association of Pharmaceutical Scientists (AAPS) Pittsburgh Chapters Student Research Symposium, Pittsburgh, PA, November 2012.	2012
52. <u>Li B</u> , Hamza T. <i>Oral presentation</i> . <i>Staphylococcus aureus</i> internalization and associated biological responses of osteoblasts and macrophages. SFB Annual Meeting, New Orleans, LA, October 2012.	2012

53.	<u>Armstead A</u> , Li B. <i>Poster presentation</i> . Hard metal (WC-Co) nano-particles induce cellular toxicity and apoptosis in a dose-dependent manner. 4 th International NanoBio Conference, Seattle, WA, July 23-26, 2012.	2012
54.	<u>McHenry S</u> , Artrip W, Noore J, Li B. <i>Poster presentation</i> . Establishment and characterization of bioluminescent biofilms using <i>Staphylococcus aureus</i> and <i>Klebsiella pneumonia</i> . WVU Summer Undergraduate Research Symposium, Morgantown, WV, July 26, 2012.	2012
55.	<u>Li B</u> , Noore J. <i>Oral presentation</i> . LL-37 antimicrobial peptide is effective against intra- and extra-cellular <i>Staphylococcus aureus</i> . 9 th World Biomaterials Congress (WBC), 6/1/2012-6/5/2012, Chengdu, China.	<u>2012</u>
56.	<u>Li B</u> , Jiang B, Li H. <i>Oral presentation</i> . Layer-by-layer nanofilm for simultaneous stimulation of bone cell attachment and proliferation and prevention of bacterial colonization. 9 th WBC, 6/1/2012-6/5/2012, Chengdu, China.	<u>2012</u>
57.	<u>Arena C</u> , Armstead AL, Li B. <i>Poster presentation</i> . Local cellular responses to orthopaedic joint prosthesis wear. Van Liere Research Day, Morgantown, WV, March 2012.	2012
58.	<u>Amoroso J</u> , Hamza T, Li B. <i>Poster presentation</i> . Biological responses to intracellular <i>Staphylococcus aureus</i> by macrophages in development of a co-culture model. Van Liere Research Day, Morgantown, WV, March 2012.	2012
59.	<u>Armstead AL</u> , Arena C, Li B. <i>Poster presentation</i> . Potential role of WC-Co nano-particle internalization in hard metal lung disease. Van Liere Research Day, Morgantown, WV, March 2012.	2012
60.	<u>Hamza T</u> , Li B. <i>Poster presentation</i> . Cellular and molecular responses of osteoblast upon <i>Staphylococcus aureus</i> internalization. Van Liere Research Day, Morgantown, WV, March 2012.	2012
61.	<u>Duan Y</u> , Jiang B, Gray M, Luebke D, Li B. <i>Oral presentation</i> . Amino-acid related sorbents for CO ₂ capture applications. ACS Spring Annual Meeting, San Diego, CA, March, 2012.	2012
62.	<u>Li H</u> , Hamza T, Clovis NB, Smith ES, Tidwell JE, Li B. (2012). <i>Oral presentation</i> . Antimicrobial properties of platelet-rich plasma – <i>in vitro</i> and <i>in vivo</i> studies. ORS Annual Meeting. Feb. 4-7, 2012, San Francisco, CA.	<u>2012</u>
63.	<u>Li B</u> , Noore J, Kurian S, Noore A. (2012). <i>Poster presentation</i> . LL-37: An effective cationic antimicrobial peptide against intra- and extra-cellular bacteria. ORS Annual Meeting. Feb. 4-7, 2012, San Francisco, CA.	<u>2012</u>
64.	<u>Hamza T</u> , Li B. (2012). <i>Poster presentation</i> . <i>Staphylococcus aureus</i> internalization and associated osteoblast responses. ORS Annual Meeting. Feb. 4-7, 2012, San Francisco, CA.	<u>2012</u>
65.	<u>Li B</u> , Noore J, Noore A. <i>Poster presentation</i> . Cationic antimicrobial peptides potent against common orthopaedic pathogens. SFB Annual Meeting, Orlando, FL, April 2011.	<u>2011</u>
66.	<u>Jiang B</u> , Li B, Fauth DJ, Gray ML, Pennline HW, Richards GA. <i>Oral presentation</i> . Layer-by-layer nanoassembly of CO ₂ -capturing solid sorbents. ACS Annual Meeting, Anaheim, CA, March 2011.	<u>2011</u>
67.	<u>Pham D</u> , Hamza T, Dietz M, Tidwell J, Jones A, Clovis N, Smith S, Li B. <i>Oral presentation</i> . Intracellular <i>Staphylococcus aureus</i> and its link with	2011

chronic osteomyelitis. Van Liere Research Day, Morgantown, WV, March 2011.	
68. <u>Pham D</u> , Hamza T, Dietz M, Tidwell J, Jones A, Clovis N, Smith S, Li B. <i>Poster presentation</i> . Intracellular <i>Staphylococcus aureus</i> and its link with chronic osteomyelitis. Van Liere Research Day, Morgantown, WV, March 2011.	2011
69. <u>Hamza T</u> , Li B. <i>Poster presentation</i> . Osteoimmunology: The inflammatory response of osteoblasts upon <i>Staphylococcus aureus</i> internalization. Van Liere Research Day, Morgantown, WV, March 2011.	2011
70. <u>Hamza T</u> , Pham D, Dietz M, Tidwell J, Jones A, Clovis N, Smith S, Li B. <i>Poster presentation</i> . Intracellular <i>Staphylococcus aureus</i> infection: <i>In vivo</i> evidence for chronic osteomyelitis disease. ORS Annual Meeting, Long Beach, California, January 2011.	2011
71. <u>Jiang B</u> , Jiang BH, Li B. <i>Oral presentation</i> . Drug-carrying nanoparticles targeting intracellular pathogens. ORS Annual Meeting, Long Beach, California, January 2011.	2011
72. <u>Boyce B</u> , Lindsey B, Clovis NB, Smith ES, Hubbard D, Li B. <i>Oral presentation</i> . Synergetic effects of exogenous IL-12 supplementation and antibiotic treatment in prophylaxis of implant-associated infection. ORS Annual Meeting, Long Beach, California, January 2011.	2011
73. <u>Noore A</u> , Noore J, Li B. <i>Oral and poster presentations</i> . Cationic antimicrobial peptides: A potential effective treatment for orthopaedic infections. ORS Annual Meeting, Long Beach, California, January 2011.	2011
74. <u>Li B</u> , Armstead A, McKeague AL, Kolanko C, et al. <i>Poster presentation</i> . Drug-carrying nanoparticles targeting <i>S. aureus</i> -infected human cells: A new strategy preventing infection recurrence? Advanced Technology Applications for Combat Casualty Care (ATACCC) Annual Meeting, August 2010, St. Pete Beach, FL.	2010
75. <u>Li B</u> , Hamza T, McKeague AL, Kolanko C, et al. <i>Poster presentation</i> . Tuning appropriate cellular responses to prevent infection and improve healing in trauma patients. ATACCC Annual Meeting, August 2010, St. Pete Beach, FL.	2010
76. <u>Regal S</u> , Li H, Hamza T, Knittle S, Li B. <i>Poster presentation</i> . Could platelet-rich plasma be an effective treatment for bone infections? Van Liere Research Day, Morgantown, WV, April 2010.	2010
77. <u>Hamza T</u> , Armstead A, Li B. <i>Poster presentation</i> . <i>In vitro</i> models for intracellular <i>Staphylococcus aureus</i> infection of osteoblasts and macrophages. Van Liere Research Day, Morgantown, WV, April 2010.	2010
78. <u>Hamza T</u> , Jiang B, Li B. <i>Poster presentation</i> . A potential strategy of eradicating intracellular bacteria by antibiotic-incorporated nanoparticles. WVNano Research Symposium, Morgantown, WV, April 2010.	2010
79. <u>Jiang B</u> , Li H, Li B. <i>Oral presentation</i> . Advanced nanoparticle drug delivery system targeting <i>Staphylococcus aureus</i> within osteoblasts. SFB Annual Meeting, Seattle, WA, April 21-24, 2010.	2010
80. Jiang B, Li H, <u>Li B</u> . <i>Poster presentation</i> . Nanoparticle drug delivery system for potential elimination of intracellular infections. ORS Annual Meeting,	2010

New Orleans, LA, March 6 - 9, 2010.	
81. <u>Li H</u> , Jiang B, Li B. <i>Poster presentation</i> . Cefazolin embedded polypeptide nanofilms promising for infection prevention: <i>in vitro</i> cell responses. ORS Annual Meeting, New Orleans, LA, March 6 - 9, 2010.	2010
82. <u>Li H</u> , Hamza T, Li B. <i>Poster presentation</i> . <i>In vitro</i> antibacterial effects of platelet-rich plasma on bacterial stains related to bone infection. ORS Annual Meeting, New Orleans, LA, March 6 - 9, 2010.	2010
83. <u>Li B</u> , Jiang B, Dietz M, Smith ES, Clovis N, Rao, KMK. <i>Poster presentation</i> . Engineering local cytokine delivery systems for preventing open fracture associated infections. MRS Fall Annual Meeting, Boston, MA, Nov. 30-Dec. 4, 2009.	2009
84. <u>Hamza T</u> , Li H, Jiang B, Knittle S, Li B. <i>Poster presentation</i> . Prevention of bone-related infections using drug-loaded nanoparticles. The 21 st EPSCoR National Conference (NSF), JW Marriott in Washington, DC, Oct. 19-21, 2009.	2009
85. <u>Li B</u> , Kolanko C, Hubbard DF, Emery SE, Brundage K, Thomas JG. <i>Poster presentation</i> . Novel local IL-12 therapies effectively combat open fracture-associated infection. ATACCC Annual Meeting, St. Pete Beach, FL, Aug. 10-12, 2009.	2009
86. <u>Li B</u> , Li HK, Shuler FD, Emery SE, Kolanko C, Thomas JG, Brundage K, Barnett JB. <i>Poster presentation</i> . Elimination of intracellular <i>Staphylococcus aureus</i> with biodegradable antibiotic nanoparticles. ATACCC Annual Meeting, St. Pete Beach, FL, Aug. 10-12, 2009.	2009
87. Knittle S, Regal S, Li H, Jiang B, Li B. <i>Poster presentation</i> . Catch me if you can: The elimination of intracellular <i>Staphylococcus aureus</i> with PLGA nanoparticles containing gentamicin. WVNano SURE Symposium, Morgantown, WV, July 2009.	2009
88. <u>Hamza T</u> , Li H, Ogle H, Li B. <i>Poster presentation</i> . Cefazolin embedded polypeptide nanofilms is promising for infection prevention: A study on cell responses". WVNano Research Symposium, Morgantown, WV, May 2009.	2009
89. <u>Li B</u> , Jiang B, Zhao Q, Lindsey B, Boyce B, Dietz M, Hubbard D. <i>Poster presentation</i> . Exogenous IL-12 activates macrophages and prevents infection in an open fracture. SFB Annual Meeting, San Antonio, TX, April 2009.	2009
90. <u>Jiang B</u> , DeFusco E, Li B. <i>Oral presentation</i> . Development of multifunctional nanocoatings for improving bone healing and preventing infection. SFB Annual Meeting, San Antonio, TX, April 2009.	2009
91. <u>Zhao Q</u> , Li B. <i>Poster presentation</i> . Template assisted synthesis of layered chitosan microcapsules. SFB Annual Meeting, San Antonio, TX, April 2009.	2009
92. <u>DeFusco E</u> , Jiang B, Kish V, Li B. <i>Undergraduate poster presentation</i> . Nano-engineering multilevel drug delivery systems. WV STaR Symposium, Charleston, WV, April 2009.	2009
93. <u>Li B</u> , Zhao Q, Dietz MJ, Clovis NB, Smith ES, Noore J. <i>Oral presentation</i> . Nanotechnology based IL-12 microcapsules for orthopaedic infection prevention in a traumatic setting. ORS Annual Meeting, Las Vegas, Nevada, February 2009.	2009
94. <u>DeFusco E</u> , Jiang B, Li B. <i>Poster presentation</i> . Nano-engineering advanced	2008

drug delivery systems. WVNano SURE Symposium, Morgantown, WV, July 23, 2008.	
95. <u>Knittle S</u> , Ogle H, Li H, Li B. <i>Poster presentation</i> . Polypeptide nano-coatings for prevention of implant associated infection. WVNano SURE Symposium, Morgantown, WV, July 23, 2008.	2008
96. <u>Li B</u> . <i>Oral presentation</i> . Development of multifunctional biomaterials: A combination of bioengineering, <i>in vitro</i> , and <i>in vivo</i> studies. Multifunctional Nanomaterials International Symposium, Roanoke, WV, April 2008.	2008
97. <u>Hamza T</u> , Li B. <i>Poster presentation</i> . Self-assembly multifunctional nanocoatings for biomedical applications. Multifunctional Nanomaterials International Symposium, Roanoke, WV, April 2008.	2008
98. <u>Kellermeyer B</u> , Li B. <i>Poster presentation</i> . Biomimetic nanocoatings promote bone forming-cell adhesion. Van Lier Memorial Convocation and Research Day, Morgantown, WV, April 2008.	2008
99. <u>Hagar M</u> , Li B. <i>Poster presentation</i> . Nanocoatings for the prevention of device-associated infections - A microbiological study. Van Lier Memorial Convocation and Research Day, Morgantown, WV, April 2008.	2008
100. <u>Li B</u> , Jiang B, Boyce BM, Lindsey BA. <i>Oral presentation</i> . Local IL-12 incorporated in nanocoatings promising for preventing open fracture associated infection. ORS Annual Meeting, San Francisco, CA, March 2008.	2008
101. <u>Ogle H</u> , Hamza T, Li B. <i>Poster presentation</i> . Antibiotic-eluting nanotechnology coatings for potential prevention of device-associated infections. WV Undergraduate Research Day at the Capitol, Charleston, WV, January 2008.	2008
102. <u>Kellermeyer B</u> , Hagar M, DeFusco E, Li B. <i>Poster presentation</i> (invited). Biomimetic coatings promote bone forming-cell adhesion — a promising approach for rapid fracture healing. WVU Research Poster Session, Morgantown, WV, October 2007.	2007
103. <u>Kellermeyer B</u> , Hagar M, DeFusco E, Li B. <i>Poster presentation</i> . Biomimetic coatings promote bone forming-cell adhesion — a promising approach for rapid fracture healing. WV STaR Symposium 2007, Morgantown, WV, September 2007.	2007
104. <u>Ogle H</u> , Jiang B, Thomas JG, Li B. <i>Oral presentation</i> . Polypeptide nanocoatings for potential prevention of biomedical device-associated infections. 2007 Biomedical Engineering Society (BMES) Annual Meeting, Los Angeles, CA, September 2007.	2007
105. <u>DeFusco E</u> , Jiang B, Li B. <i>Poster presentation</i> . Biocompatible nanocoating for improving osteoblast cell adhesion and proliferation. WVNano SURE Symposium, Morgantown, WV, July 26, 2007.	2007
106. <u>Li B</u> , Jiang B, Lindsey B, Boyce B, Salihu S, Kish V, Hubbard D. <i>Poster presentation</i> . <i>In vitro</i> and <i>in vivo</i> studies of a novel system for cytokine local delivery. SFB Annual Meeting, Chicago, IL, April 2007.	2007
107. <u>Jiang B</u> , Li B. <i>Poster presentation</i> . Biomimetic nanocoatings as novel drug delivery systems. SFB Annual Meeting, Chicago, IL, April 2007.	2007
108. <u>Li B</u> , Jiang B. <i>Poster presentation</i> . A novel nanotechnology-based approach for developing antibiotic-loaded coatings to prevent orthopaedic device-	2007

related infections. ORS Annual Meeting, San Diego, CA, February 2007.	
109. <u>Bhattacharai R</u> , Jiang B, Li B. <i>Poster presentation</i> . Biomedical research: Polypeptide nanocoating for drug loading and <i>in vitro</i> drug release. WV-INBRE Summer Research Symposium, Morgantown, WV, August 2006.	2006
110. <u>Li B</u> , Zhong Y, Haynie DT. <i>Poster presentation</i> . Biomimetic nanotechnology: conformational behavior of polypeptide and polypeptide complex. SFB Annual Meeting, Pittsburgh, PA, April 2006.	2006
111. <u>Li B</u> , Zhong Y, Haynie DT. <i>Oral presentation</i> . Biomimetic nanotechnology: structural stability of polypeptide nanofilms. MRS Spring Annual Meeting, San Francisco, CA, April 2006.	2006
112. <u>Zhong Y</u> , Li B, Haynie D. <i>Poster presentation</i> . Control of polypeptide multilayer nanofilm stability by quantitative control of disulfide bond formation. The 57 th Southeast/61 st Southwest Regional ACS Meeting, Memphis, TN, November 2005.	2005
113. <u>Li B</u> , Zhong Y, Haynie DT. <i>Oral presentation</i> . Biomimetic nanotechnology: exquisite control over self-assembly of designed peptide multilayer nanofilms. MRS Spring Annual Meeting, San Francisco, CA, March 2005.	2005
114. Haynie DT, <u>Li B</u> . <i>Oral presentation</i> . Biomimetic nanoengineering: Polypeptide microcapsules as artificial cells. 10 th Institute of the Biological Engineering IBE Annual Meeting, Athens, GA, March 2005.	2005
115. <u>Li B</u> , Mukasyan A, Varma A. <i>Poster presentation</i> . Combustion synthesis of CoCrMo orthopedic implant alloys. 28 th SFB Annual Meeting, Tampa, FL, April, 2002.	2002
116. <u>Li B</u> , Mukasyan A, Varma A. <i>Poster presentation</i> . Advanced pore-free orthopaedic biomaterials from combustion synthesis. The 21 st Century Research & Technology Day, Indianapolis, IN, January 2001.	2001
117. <u>Li B</u> , Rong L, Li Y. <i>Poster presentation</i> . Stress-strain behavior of porous shape memory alloys. IUMRS-ICAM'99, Beijing, China, June 1999.	1999
118. Li B, Li Y, Rong L. <i>Poster presentation</i> . Advanced porous biomaterials. The 3 rd Youth Academic Annual Meeting, Liaoning Province.	1998

9.6. Other Presentations at the Department Level or without Abstracts

Authors/Title/Conference/Date	Year
119. <u>Li B</u> . <i>Oral presentation</i> . Innovative antimicrobial peptides present potent antimicrobial properties along with low toxicity towards human cells. Annual Resident Research Symposium, Department of Orthopaedics, West Virginia University, Morgantown, WV, May 5, 2017.	2017
120. <u>Bell C</u> , Andreini D, Noore J, Li B. <i>Oral presentation</i> . Effect of antimicrobial peptide on intracellular <i>S. aureus</i> . Summer Student Research Day, Department of Orthopaedics, Morgantown, WV, Aug. 5, 2016.	2016
121. <u>Andreini D</u> , Bell C, Noore J, Li B. <i>Oral presentation</i> . Recovery of <i>Staphylococcus aureus</i> small colony variants. Summer Student Research Day, Department of Orthopaedics, Morgantown, WV, Aug. 5, 2016.	2016
122. <u>Kang J</u> , <u>Roberts E</u> , Noore, J, Li B. <i>Oral presentation</i> . Nanosilver: New approach towards the treatment of intracellular <i>Staphylococcus aureus</i> .	2016

Summer Student Research Day, Department of Orthopaedics, Morgantown, WV, Aug. 5, 2016.	
123. <u>Li B.</u> <i>Oral presentation.</i> Intra-cellular <i>Staphylococcus aureus</i> and LL-37 antimicrobial peptide. Resident Research Day, Department of Orthopaedics. May 16, 2014, Morgantown, WV.	2014
124. <u>Wang X</u> , Ding B, Li B. <i>Poster presentation.</i> Biomimetic nanofibrous structures for tissue engineering. Materials Today: Biomaterials virtual conference, November 19-21, 2013.	2013
125. <u>Arttrip W</u> , McHenry S, Noore J, Li B. <i>Oral presentation.</i> Characterization and treatment of <i>S. aureus</i> bioluminescent biofilms. Summer Student Presentation Meeting, Department of Orthopaedics, August 3, 2012.	2012
126. <u>Patel K</u> , Armstead A, Li B. <i>Oral presentation.</i> Co-culture models to determine particle toxicity and cellular responses. Summer Student Presentation Meeting, Department of Orthopaedics, August 3, 2012.	2012
127. <u>Farjo P</u> , et al., Li B. <i>Oral presentation.</i> Animal model of open femur-fracture infection using noninvasive <i>in vivo</i> bioluminescence imaging. Summer Student Presentation Meeting, Department of Orthopaedics, August 3, 2012.	2012
128. <u>Armstead A</u> , Hamza T, Li B. <i>Poster presentation.</i> Intracellular <i>Staphylococcus aureus</i> infection of osteoblasts and macrophages. Research Day, School of Pharmacy, WVU. Morgantown, WV. October, 2010.	2010
129. <u>Hamza T</u> , Jiang B, Li B. <i>Poster presentation.</i> PLGA nanoparticles targeting intracellular pathogens. Inaugural Research Day, School of Pharmacy, WVU. Morgantown, WV. February 19, 2010.	2010
130. <u>Hamza T.</u> <i>Oral seminar presentation.</i> Osteoblasts response to <i>Staphylococcus aureus</i> infection. Pharmaceutical Spring Seminar, WVU, February 9, 2010.	2010
131. <u>Jiang B.</u> <i>Oral presentation.</i> Cell adhesion on extracellular matrix-like coating of synthetic polypeptides. Department of Orthopaedics, WVU, Jan. 20, 2010.	2010
132. <u>Hamza T.</u> <i>Oral presentation.</i> In vitro <i>S. aureus</i> infection model. Department of Orthopaedics, WVU, January 20, 2010.	2010
133. <u>Li B.</u> <i>Oral presentation.</i> 2009 Lab research report. Department of Orthopaedics, WVU, January 20, 2010.	2010
134. <u>Li B.</u> <i>Oral presentation.</i> Advanced non-antibiotic therapies for infection prevention and wound healing. Orthopaedic Reunion Day, WVU, October 16, 2009.	2009
135. <u>Li B.</u> <i>Oral presentation.</i> Nanomedicine for infection prevention. Resident Research Day, Department of Orthopaedics, WVU, May 29, 2009.	2009
136. <u>Li B.</u> <i>Oral presentation.</i> Nanotechnology-based drug delivery for orthopaedic applications. Reunion Day, Department of Orthopaedics, WVU, October 3-4, 2008.	2008
137. <u>Li B.</u> <i>Oral presentation.</i> Nanotechnology drug carriers for infection prevention and fracture healing. Research Day, Department of Orthopaedics, WVU, May 30, 2008.	2008
138. <u>Boyce B</u> , Lindsey B, Clovis N, Smith S, Salihu S, Li B, Hubbard D. <i>Oral presentation.</i> Standard of care vs. percutaneous or intramedullary interleukin-12 therapy for open fractures in an animal model. Research Day, Department of Orthopaedics, WVU, May 30, 2008.	2008