

# Curriculum Vitae — Bingyun Li, PhD

## Table of Contents

Table of Contents .....	1
Contact Information .....	2
Research Interest .....	2
<b>1. Education and Postgraduate/Postdoctoral Training .....</b>	<b>3</b>
1.1. Education .....	3
1.2. Postgraduate/Postdoctoral Training .....	3
<b>2. Current and Previous Positions and Appointments .....</b>	<b>3</b>
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
<b>3. Awards and Honors .....</b>	<b>4</b>
3.1. Awards and Honors of Dr. Li .....	4
3.2. Awards and Honors of Dr. Li's Students/Trainees .....	7
<b>4. Committees and Professional Societies, and Other Services .....</b>	<b>9</b>
4.1. Professional Societies .....	9
4.2. Institutional Committees .....	9
4.3. Thesis and Dissertation Committees .....	10
4.4. Session Chair and Volunteer .....	11
<b>5. Reviewer and Editorial Board and Editor .....</b>	<b>12</b>
5.1. Editorial Board and Editor .....	12
5.2. Ad hoc Reviewer for National and International Conferences .....	13
5.3. Ad hoc Reviewer for National and International Journals .....	14
5.4. Review and Study Section .....	16
<b>6. Grants and Contracts .....</b>	<b>17</b>
6.1. Current and Previous Grants and Contracts .....	17
6.3. Students Grants and Fellowships Mentored .....	18
<b>7. Undergraduate and Graduate Education .....</b>	<b>18</b>
7.1. Course/Lecture in Classroom Settings .....	18
7.2. Thesis and Dissertation Directions .....	18
7.3. Students and Trainees Mentored .....	19
<b>8. Invited Lectures and Presentations .....</b>	<b>21</b>
8.1. Invited Lectures and Presentations: International .....	21
8.2. Invited Lectures and Presentations: National .....	22
8.3. Invited Lectures and Presentations: Local and Institutional .....	23
<b>9. Patents, Publications, and Book Chapters .....</b>	<b>24</b>
9.1. Patents and Patent Disclosures .....	24
9.2. Original Published Peer-Reviewed Articles .....	25
9.3. Non-Peer-Reviewed Invited Publications .....	29
9.4. Book Chapters .....	29
9.5. Abstracts Presented .....	29
9.6. Other Presentations at the Department Level or without Abstracts .....	35

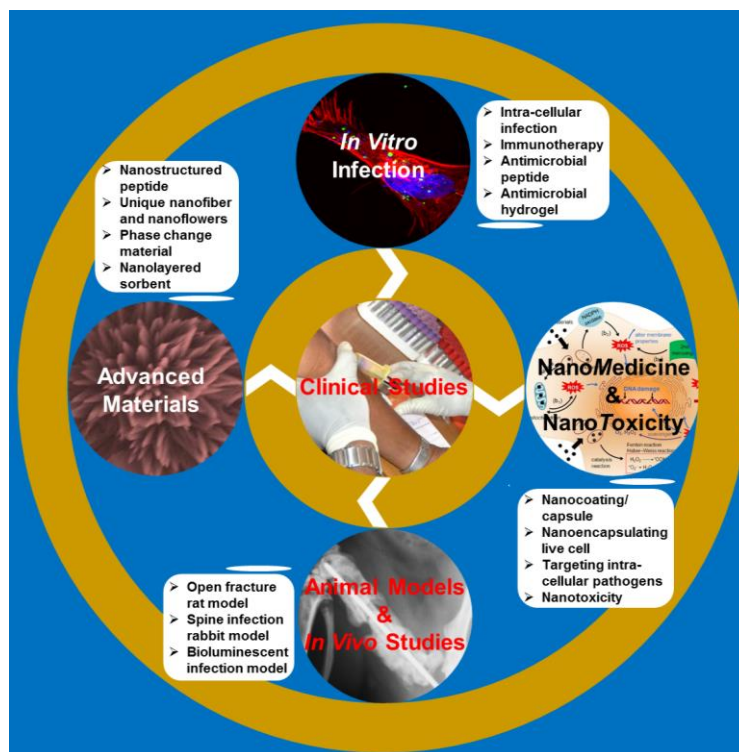
## \*Curriculum Vitae — Bingyun Li, PhD

### Contact Information

Date: September 6, 2016  
Home Address: 1029 Brettward Drive, Morgantown, WV 26508  
Office Address: 5408 Health Sciences Center South  
1 Medical Center Drive, PO Box 9196, Morgantown, WV 26506-9196  
Phone: 3042931075 (O); 6812855856 (C)  
FAX: 3042937070  
E-mail: [bili@hsc.evlu.edu](mailto:bili@hsc.evlu.edu)  
Website: <http://medicine.hsc.wvu.edu/ortho/li>  
Current Position: Professor, 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
- **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	Year(s)
BS	Central South University, Changsha, China	1990-1994
MS	Institute of Metal Research, Chinese Academy of Sciences, China	1994-1997
PhD	Institute of Metal Research, Chinese Academy of Sciences, China	1997-2000

### 1.2. Postgraduate/Postdoctoral Training

Degree	Institution and location	Year(s)
Postdoc.	University of Notre Dame, South Bend, IN, USA	2000-2002
Postdoc.	Louisiana Tech University, Ruston, LA, USA	2002-2005

## 2. Current and Previous Positions and Appointments

### 2.1. Current Academic Positions and Appointments

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

### 2.2. Current and Previous Administrative Positions and Appointments

Appointment/Position	Year(s)
1. <b>Faculty Senator</b> (representing School of Medicine), WVU Faculty Senate, June 2016-June 2019.	2016-2019
2. <b>CTSI Scholar Mentor</b> of a West Virginia Clinical and Translational Science Institute (WVCTSI) Research Scholar (XXX, MD, Assistant Professor of Orthopaedics Surgery), July 2016-June 2017.	2016-2017
3. <b>Committee Member</b> , Research Integrity Committee, WVU.	2016-2017
4. <b>Committee Member</b> , WVU Research and Scholarship Committee, WVU.	2015-2016
5. <b>Faculty Senator</b> (representing School of Medicine), WVU Faculty Senate, June 2014-June 2016.	2014-2016
6. <b>Committee Member</b> , Biomedical Engineering (BMEG) Program committee, 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.	2011-2014
7. <b>Director</b> , 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. <b>Committee Member</b> , WVNano Combined Faculty Search Committee; more	2005-2012

than 10 faculty were hired.	
-----------------------------	--

### 2.3. Previous Academic Appointments

Appointment	Year(s)
<b>Associate Professor with tenure</b> , Department of Orthopaedics, School of Medicine, West Virginia University (WVU), Morgantown, WV.	2011-2017
<b>Faculty Participant</b> , WVNano Initiative, the State of West Virginia's focal point for nanoscale science, engineering and education research, workforce development, and economic development.	2005-2011
<b>Assistant Professor</b> , Department of Orthopaedics, School of Medicine, WVU, Morgantown, WV.	2005-2011

### 2.4. Other Appointments and Positions

Appointment/Position	Year(s)
<b>Member</b> , WVCTSI.	2012-present
<b>Associate Member</b> , MBRCC Osborn Program, WVU Cancer Center.	2011-present
<b>Guest Researcher</b> , National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention, Morgantown, WV.	2007-present
<b>Faculty Participant</b> , 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 was invited to <b>co-chair</b> the NIH Study Section (teleconference) - BST-M (55): Bioengineering Research Partnerships (U01), April 4, 2017.	2017
2. Dr. Li was invited to serve as the <b>Chair</b> of the Infection and Inflammation Topic Committee by the Orthopaedic Research Society Program Committee. November 15, 2016.	2016
3. Dr. Li and his colleagues (XXX, MD and XXX, MD) are <b>featured as outstanding collaborators</b> 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
4. Dr. Li was <b>nominated</b> for the Dean's Awards for Excellence in research. July 2016.	2016
5. Dr. Li was selected as a <b>CTSI Scholar Mentor</b> of a WV CTSI Research Scholar (XXX, MD, Assistant Professor of Orthopaedics Surgery), July 2016-June 2017.	2016
6. Dr. Li was <b>invited</b> by the Chair of the Scientific Program to chair the "Anti-infective biomaterials and device related infections" session at the 10 <sup>th</sup> World	2016

Biomaterials Congress (WBC2016), Montreal, Canada, May 18, 2016.	
7. Dr. Li was <b>nominated</b> for the Vice President's Outstanding Achievement in Research and Scholarly Activities Award at Health Sciences Center, WVU, March 24, 2016.	2016
8. Dr. Li received the <b>International Travel Award</b> from WVU to attend the 10 <sup>th</sup> World Biomaterials Congress, Montreal, Canada, March 2016.	2016
9. On behalf of Xingbo Liu, lead of the Electrochemical Systems Research Center, Dr. Li was named, among six researchers as <b>Outstanding Researchers</b> 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
10. Dr. Li's collaborative work with Xingbo Liu and Trina Wafle was picked as one of the <b>Crowd Choice Awards</b> 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
11. Dr. Li was included in the 70 <sup>th</sup> Platinum Anniversary Edition of Marquis <b>Who's Who in America</b> .	2015
12. Dr. Li was awarded a <b>Travel Grant</b> , WVU, March 2015.	2015
13. Dr. Li was invited by the program chair to serve as a <b>moderator</b> of a Spotlight Session titled "Knee OA Repair." ORS Annual Meeting, Las Vegas, NV, March 28-31, 2015.	2015
14. Dr. Li's paper titled "Advances in CO <sub>2</sub> capture technology" received the " <b>Applied Energy Highly Cited Award</b> " 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
15. Dr. Li was awarded the <b>Collaborative Exchange Award</b> from the Orthopaedic Research Society (ORS), October, 2013. <u>Only two such awards are given each year to orthopaedic researchers worldwide.</u>	2013
16. Dr. Li was awarded the <b>APOA (Asia Pacific Orthopaedic Association) Pfizer Best Scientific Paper Award</b> at the combined 9 <sup>th</sup> Asia Pacific Spine Society Congress, 9 <sup>th</sup> APOA Paediatric Section Congress, and 5 <sup>th</sup> 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
17. Dr. Li was an <b>invited faculty presenter</b> at the combined 9 <sup>th</sup> Asia Pacific Spine Society Congress, 9 <sup>th</sup> APOA Paediatric Section Congress, and 5 <sup>th</sup> APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013.	2013
18. Dr. Li received the <b>International Travel Award</b> from WVU to attend the Asia Pacific Orthopaedic Association Congress, Kuching, Malaysia, August 2013.	2013
19. Dr. Li was the only <b>invited speaker</b> at the 2013 Student Night of the American Institute of Chemical Engineers (AIChE)-Pittsburgh Section on Tuesday,	2013

February 12, 2013.	
20. Dr. Li was accepted for <b>participation</b> in the Early Career Reviewer (ECR) program at the Center for Scientific Review (CSR), National Institute of Health, August 2012.	2012
21. Dr. Li was invited by program chair to <b>co-chair</b> a symposium titled “Advances in metallic biomaterials”, 9 <sup>th</sup> World Biomaterials Congress, June 1-5, 2012, Chengdu, China.	2012
22. Dr. Li received the <b>International Travel Award</b> from WVU to attend the 9 <sup>th</sup> World Biomaterials Congress, Chengdu, China, May 2012.	2012
23. Dr. Li was an <b>invited speaker</b> at the International Forum of Biomedical Materials: Nanobiomaterials for Tissue Regeneration, Hangzhou, Zhejiang, China, May 2012.	2012
24. Dr. Li was awarded the <b>Berton Rahn Prize</b> 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 <b>CHF 10,000</b> . <u>Only <b>five</b> researchers worldwide have been awarded since 2009.</u>	2011
25. Dr. Li was an <b>invited guest presenter</b> at the 2011 AO Foundation Board of Trustees Meeting. Berlin, Germany, July 2011.	2011
26. Dr. Li was an <b>invited guest presenter</b> at the 2011 OTC (Osteosynthesis & Trauma Care Foundation) Leadership Forum. Madrid, Spain, June 2011.	2011
27. Dr. Li was an <b>invited faculty participant</b> at the AOTrauma Clinical Priority Program on Bone Infection Meeting, Boston, MA, July 2010. The faculty participants were to prioritize and have shaped the future research directions in bone infections in the AOTrauma Clinical Priority Program.	2010
28. Dr. Li was invited to serve as a <b>session moderator</b> at the WV STaR (Science, Technology and Research) Symposium in the topic of “Biological, Biotechnical & Biomedical Sciences”. April 2009, Charleston, WV.	2009
29. Dr. Li received a <b>Faculty Travel Grant</b> from WVU, 2009.	2009
30. Dr. Li was an <b>invited speaker and panelist</b> at the Cool Tech Nanomedicine Event (Northern Virginia Technology Council). McLean, Virginia, 2008.	2008
31. Dr. Li was a <b>participant</b> of the U.S. Bone and Joint Decade’s Young Investigator Initiative (YII) Program.	2007-2008
32. Dr. Li was awarded an <b>NSF Fellowship</b> , NSF Summer Institute on Nano Mechanics and Materials. UCLA, CA.	2007
33. Dr. Li was awarded the <b>Top Director’s Award</b> from the Institute of Metal Research (IMR), Chinese Academy of Sciences.	2000
34. Dr. Li was awarded the <b>Top Presidential Scholarship</b> of Chinese Academy of Sciences (CAS).	1999
35. Dr. Li was awarded the <b>Excellent Dissertation Award</b> , the 3 <sup>rd</sup> Youth Academic Annual Meeting, Liaoning Province.	1998

36. Dr. Li was awarded the <b>Top Director's Award</b> , IMR, CAS.	1997
37. Dr. Li was awarded the <b>Outstanding Graduate Leadership Award</b> , 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 <b>First Place Poster Prize</b> 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 at the <b>Undergraduate Research Day at the Capitol</b> , Charleston, WV, Feb. 24, 2017.	2017
3. Dr. Li's PhD student, Jianhua Yan, PhD, was offered a <b>full professor position</b> at Donghua University, China, February 2017.	2017
4. Dr. Li's trainee, Rutter P, was selected to present a poster at the <b>Undergraduate Research Day at the Capitol</b> , Charleston, WV, Feb. 25, 2016.	2016
5. Dr. Li's PhD student (engineering), Jianhua Yan, was awarded the <b>National Merit Scholarship</b> 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 <b>Doctoral Student Travel Award</b> from the School of Engineering, WVU for the Electrochemical Society (ECS) 228 <sup>th</sup> meeting, Oct. 10-15, 2015, Phoenix, AZ.	2015
7. One of Dr. Li's trained residents, Andrew Hanselman, MD, was awarded a <b>Resident Research Grant</b> from Orthopaedic Research and Education Foundation (OREF), June 2015.	2015
8. Dr. Li's PhD student, Jianhua Yan, was awarded a <b>Travel Grant</b> from the national Electrochemical Society (ECS) for the ECS 227 <sup>th</sup> meeting, May 24-28, Chicago, IL.	2015
9. Dr. Li's PhD student, Jianhua Yan, was awarded a <b>Doctoral Student Travel Award</b> from School of Engineering, WVU, March 2015.	2015
10. Dr. Li's trainee, Elias Joseph (MD student), received the <b>Second Place MD Poster Prize</b> at the Van Liere Research Day, Morgantown, WV, Feb. 2015.	2015
11. Dr. Li's PhD student, Andrea Armstead, was offered the <b>Technical Marketing Specialist at QuadTechnologies</b> , Boston, MA, December 2014.	2014
12. Dr. Li's postdoctoral research associate, Xianfeng Wang, PhD, was offered a <b>full professor position</b> at Donghua University, China, December 2014.	2014
13. Dr. Li's PhD student, Andrea Armstead, was awarded the <b>Graduate Student Outstanding Achievement Award</b> from School of Pharmacy, WVU, April 2014.	2014
14. Dr. Li's PhD student, Jianhua Yan, was awarded a <b>Doctoral Student Travel Award</b> from the School of Engineering, WVU, February 2014.	2014

15. Dr. Li's PhD student, Andrea Armstead, was awarded a <b>Graduate Student Travel Award</b> from WVU Health Sciences Center Research and Graduate Education, November 2013.	2013
16. Dr. Li's PhD student, Andrea Armstead, was awarded a <b>Graduate Student Travel Award</b> from School of Pharmacy, WVU, November 2013.	2013
17. One of Dr. Li's trained Research Resident (Andrew Hanselman) was awarded a <b>research grant</b> 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 <b>competitive renewal</b> 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 <b>Second Place Basic Science PhD Student Poster Prize</b> at the Van Liere Research Day, Morgantown, WV, February 2013.	2013
20. Dr. Li's trainee, Peter Farjo (MD student), received the <b>First Place MD Poster Prize</b> at the Van Liere Research Day, Morgantown, WV, February 2013.	2013
21. Dr. Li's PhD student, Therwa Hamza, was offered a <b>postdoc position</b> from University of Maryland, December 2012.	2012
22. Dr. Li's PhD student, Andrea Armstead, was awarded the <b>First Place "Most Outstanding Research Presentation"</b> at the 4 <sup>th</sup> 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 <b>full professor position</b> at Hubei University, China, June 2012.	2012
24. Dr. Li's PhD student, Andrea Armstead, was awarded a <b>Pre-Doctoral Fellowship</b> 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 <b>First Place MD Poster Prize</b> at the Van Liere Research Day, Morgantown, WV, March 2012.	2012
26. Dr. Li's trainee, John Amoroso (MD student), received the <b>Second Place MD Poster Prize</b> at the Van Liere Research Day, Morgantown, WV, March 2012.	2012
27. Dr. Li's PhD student, Therwa Hamza, was awarded a <b>Graduate Student Travel Award</b> , School of Pharmacy, WVU, February 2012.	2012
28. Dr. Li's PhD student, Andrea Armstead, was awarded a <b>renewal</b> of the WVNano Graduate Fellowship, August 2011.	2011
29. Dr. Li's trainee, Danh Pham (MD student), was awarded the <b>Second Place MD Poster Prize</b> at Van Liere Research Day, Morgantown, WV, April 2011.	2011
30. Dr. Li's PhD student, Therwa Hamza, was awarded a <b>Graduate Student Travel Award</b> from the School of Pharmacy, WVU, January 2011.	2011
31. Dr. Li's PhD student, Andrea Armstead, was awarded the <b>WVNano Graduate Fellowship</b> from WVNano initiative, August 2010.	2010
32. Dr. Li's PhD student, Therwa Hamza, was awarded a <b>Student Travel Award</b>	2010



from the COST865 2010 Training School to attend the Early Stage Researcher Training Program on Bioencapsulation. Dijon, France, June 29 - July 2, 2010.	
33. Dr. Li's undergraduate student, Adly Noore, was awarded an <b>Undergraduate Research Fellowship</b> from WV NASA EPSCoR, May 2010.	2010
34. Dr. Li's trainee, Steven Regal (MD student), was awarded the <b>First Place MD Poster Prize</b> at the Van Liere Research Day, Morgantown, WV, April 2010.	2010
35. Dr. Li's PhD student, Therwa Hamza, was awarded the <b>Best Graduate Student Poster Prize</b> at the WVNano Research Symposium, Morgantown, WV, May 2009.	2009
36. Dr. Li's undergraduate student, Elizabeth DeFusco, was awarded an <b>Undergraduate Research Fellowship</b> from WV NASA EPSCoR, May 2008.	2008
37. Dr. Li's undergraduate student, Heather Ogle, was awarded an <b>Undergraduate Research Fellowship</b> 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	WV Nano Combined Faculty Search Committee. More than ten faculty were hired.	2005-2012

#### 4.3. Thesis and Dissertation Committees

Role	Committee	Year(s)
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 an <b>organizer</b> of Orthopaedic Biomaterials sessions. Society for Biomaterials (SFB) Annual Meeting. April 4-8, 2017, Minneapolis, MN.	2017
2. Dr. Li was a <b>moderator</b> of Orthopaedic Biomaterials session 1. Society for Biomaterials (SFB) Annual Meeting. April 5, 2017, Minneapolis, MN.	2017
3. Dr. Li was a <b>moderator</b> of Orthopaedic Biomaterials session 2. Society for Biomaterials (SFB) Annual Meeting. April 6, 2017, Minneapolis, MN.	2017
4. Dr. Li was a <b>moderator</b> of Orthopaedic Biomaterials session 3. Society for Biomaterials (SFB) Annual Meeting. April 6, 2017, Minneapolis, MN.	2017
5. Dr. Li was an <b>organizer and moderator</b> of Translational Orthopaedic Biomaterials session. Society for Biomaterials (SFB) Annual Meeting. April 4-8, 2017, Minneapolis, MN.	2017
6. Dr. Li was an <b>organizer</b> of Panel Discussion: Preventing implant-associated infection. Society for Biomaterials (SFB) Annual Meeting. April 4-8, 2017, Minneapolis, MN.	2017
7. Dr. Li was an <b>organizer and moderator</b> of the Chinese Association for Biomaterials (CAB) Day (Theme: Seeking convergence to advance biomaterials science and translation). Minneapolis, MN, April 5, 2017.	2017
8. Dr. Li was an <b>organizer and moderator</b> 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
9. Dr. Li was an <b>organizer and moderator</b> 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
10. Dr. Li was a <b>volunteer</b> in the first whole-day service trip organized by WVU iServe Team to aid WV flood-affected areas and to clean up local housing in the Nichols County area with Team Rubicon and Americorps, July 13, 2016.	2016
11. Dr. Li was invited by the Chair of the Scientific Program to <b>chair</b> the “Anti-infective biomaterials and device related infections” session at the 10 <sup>th</sup> World Biomaterials Congress (WBC), Montreal, Canada, May 18, 2016.	2016
12. Dr. Li was an <b>organizer and co-moderator</b> 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
13. Dr. Li was an <b>organizer and moderator</b> 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
14. Dr. Li was a <b>moderator</b> of the Spotlight Session “Knee OA Repair” at the ORS Annual Meeting, Las Vegas, NV, March 28-31, 2015.	2015
15. Dr. Li was a <b>lead</b> of a Poster Walking Tour of Biomaterials on March 29,	2015

2015. ORS Annual Meeting, Las Vegas, NV, March 28-31, 2015.	
16. Dr. Li has been the <b>faculty advisor</b> for the WVU International Students Soccer Club ( <a href="http://intersoccerclub.studentorgs.wvu.edu">http://intersoccerclub.studentorgs.wvu.edu</a> ), one of the WVU student organizations, since 2014. The club members play once a week, and has organized friendly soccer tournaments with neighboring universities.	2014-present
17. Dr. Li was a <b>poster judge</b> at the WVU Van Liere Research Day, Feb. 2014.	2014
18. Dr. Li was a <b>poster judge</b> at the WVU Van Liere Research Day, Feb. 2013.	2013
19. Dr. Li was a <b>co-chair</b> of the symposium titled “Advances in metallic biomaterials” at the 9 <sup>th</sup> WBC, June 1-5, 2012, Chengdu, China.	2012
20. Dr. Li was a <b>moderator</b> 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
21. Dr. Li was a <b>poster judge</b> at the WVU Van Liere Research Day, March 2011.	2011
22. Dr. Li was a <b>session moderator</b> of the Biological, Biotechnical & Biomedical Sciences at the WV STaR (Science, Technology and Research) Symposium, April 2009, Charleston, WV.	2009
23. Dr. Li <b>organized and chaired</b> 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 Orthopadics & Bone Disorders <a href="https://medwinpublishers.com/JOBd/editorial-board.php">https://medwinpublishers.com/JOBd/editorial-board.php</a>	2017-present
Editorial board member	International Journal of Clinical Case Studies <a href="http://www.graphyonline.com/journal/journal_home.php?journalid=IJCCS">http://www.graphyonline.com/journal/journal_home.php?journalid=IJCCS</a>	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	Journal of Fractures and Sprains <a href="https://www.jsmedcentral.com/FracturesSprains/editors.php">https://www.jsmedcentral.com/FracturesSprains/editors.php</a>	2016-present
Editorial board member	Austin Immunology <a href="http://austinpublishinggroup.com/austin-immunology/editorialBoard.php">http://austinpublishinggroup.com/austin-immunology/editorialBoard.php</a>	2016-present

Editorial board member	Journal of Bone Biology and Osteoporosis <a href="http://www.gratisoa.org/journals/index.php/JBO/about/editorialTeam">http://www.gratisoa.org/journals/index.php/JBO/about/editorialTeam</a>	2015-present
Editorial board member	JBR Journal of Translational Clinical Case Reports and Family Physician <a href="http://scidoc.org/editorial_board.php?id=40">http://scidoc.org/editorial_board.php?id=40</a>	2015-present
Editorial board member	Journal of NanoMedicine and Applications <a href="http://sciencescript.org/jnma/review-team?members_page=2">http://sciencescript.org/jnma/review-team?members_page=2</a>	2015-present
Editorial board member	Journal of Orthopedic Research & Physiotherapy <a href="http://www.heraldopenaccess.us/journals/Orthopedic-Research-&amp;-Physiotherapy/editorial-board.php">http://www.heraldopenaccess.us/journals/Orthopedic-Research-&amp;-Physiotherapy/editorial-board.php</a>	2015-present
Editorial board member	British Journal of Applied Science & Technology <a href="http://www.sciencedomain.org/journal/5/editorial-board-members">http://www.sciencedomain.org/journal/5/editorial-board-members</a>	2014-present
Editorial board member	Science Postprint <a href="http://www.spp-j.com/reviewers/editorialboard.php?page=5">http://www.spp-j.com/reviewers/editorialboard.php?page=5</a>	2014-present
Editorial board member	Journal of Chemical and Process Engineering <a href="http://www.jscholaronline.org/journals/journal-of-chemical-engineering/editorial-board.php">http://www.jscholaronline.org/journals/journal-of-chemical-engineering/editorial-board.php</a>	2014-present
Editorial board member	ISRN Biomedical Engineering <a href="https://www.hindawi.com/journals/isrn/editors/biomedical.engineering/">https://www.hindawi.com/journals/isrn/editors/biomedical.engineering/</a>	2013-present
Editorial board member	World Journal of Orthopaedics <a href="http://www.wjgnet.com/2218-5836/EBoardMembers?pageNumber=4">http://www.wjgnet.com/2218-5836/EBoardMembers?pageNumber=4</a>	2012-present
Associate Editor	Orthopedic & Muscular System <a href="http://www.omicsonline.org/editorialboard-orthopedic-muscular-system-current-research-open-access.php">http://www.omicsonline.org/editorialboard-orthopedic-muscular-system-current-research-open-access.php</a>	2012-present
Associate Editor	Clinical Research on Foot & Ankle <a href="http://www.esciencecentral.org/journals/editorialboard-clinical-research-on-foot-ankle-open-access.php">http://www.esciencecentral.org/journals/editorialboard-clinical-research-on-foot-ankle-open-access.php</a>	2012-present
Associate Editor	Journal of Biomedical and Bioengineering <a href="http://www.bioinfopublication.org/journal.php?opt=azjou&amp;jouid=BPJ0000246&amp;detail=editorial">http://www.bioinfopublication.org/journal.php?opt=azjou&amp;jouid=BPJ0000246&amp;detail=editorial</a>	2011-present
Editorial board member	Journal of Bioengineering & Biomedical Science <a href="http://www.omicsonline.org/editorialboard-bioengineering-biomedical-science-open-access.php">http://www.omicsonline.org/editorialboard-bioengineering-biomedical-science-open-access.php</a>	2010-present

## 5.2. Ad hoc Reviewer for National and International Conferences

Conference Abstracts Review	Year(s)
-----------------------------	---------

Abstract reviewer, Orthopaedic Research Society (ORS) Annual Meetings.	2016
Abstract reviewer, Society for Biomaterials (SFB), Minneapolis, MN.	2016
Abstract reviewer, World Biomaterials Congress 2016, Montreal, Canada.	2016
Abstract reviewer, ORS Annual Meetings.	2015
Abstract reviewer, SFB Annual Meeting.	2015
Abstract reviewer, ORS Annual Meetings.	2014
Abstract reviewer, SFB Annual Meeting.	2014
Abstract reviewer, ORS Annual Meetings.	2013
Abstract reviewer, SFB Annual Meeting.	2013
Abstract reviewer, ORS Annual Meetings.	2012
Abstract reviewer, SFB Annual Meeting.	2012
Abstract reviewer, ORS Annual Meetings.	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)

<b>Journal Title</b>
1. ACS Applied Materials & Interfaces (Impact Factor/IF=7.145)
2. Acta Biomaterialia (IF=6.008)
3. Advanced Biomaterials (IF=18.96)
4. Advanced Drug Delivery Reviews (IF=15.606)
5. Advanced Functional Materials (IF=11.382)
6. Advanced Materials (IF=18.96)
7. Advanced Science Letters (N/A)
8. Antimicrobial Agents and Chemotherapy (IF=4.415)
9. Applied Physics Letter (IF=3.142)
10. Applied Sciences (IF=1.726)
11. Bioactive Materials (N/A)
12. Biologics: Targets & Therapy (N/A)
13. Biomacromolecules (IF=5.583)
14. Biomaterials (IF=8.387)
15. Biomedical Engineering-Applications, Basis and Communications (BME) (N/A)

16. Biotechnology and Bioengineering (IF=4.243)
17. Biotechnology Research International (N/A)
18. British Microbiology Research Journal (N/A)
19. Carbohydrate Polymers (IF=4.219)
20. Cellular Physiology and Biochemistry (IF=4.652)
21. Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders (N/A)
22. Clinical Orthopaedics and Related Research (CORR) (IF=3.127)
23. Energy & Fuels (IF=2.835)
24. European Cells & Materials (IF=4.56)
25. European Polymer Journal (IF=3.485)
26. Fuel (IF=3.611)
27. Infection and Immunity (IF=3.603)
28. International Journal of Biomedical Nanoscience and Nanotechnology (N/A)
29. International Journal of Interferon, Cytokine and Mediator Research (N/A)
30. Journal of Antimicrobial Chemotherapy (IF=4.919)
31. Journal of Biomaterials Science: Polymer Edition (IF=1.733)
32. Journal of Biomedical Materials Research B (IF=2.881)
33. Journal of Biomedical Nanotechnology (IF=3.929)
34. Journal of Colloid and Interface Science (IF=3.782)
35. Journal of Interferon & Cytokine Research (IF=2.135)
36. Journal of Materials Chemistry A (IF=8.262)
37. Journal of Materials Chemistry B (IF=4.872)
38. Journal of Microencapsulation (IF=1.631)
39. Journal of Nanoscience and Nanotechnology (IF=1.338)
40. Journal of Orthopaedic Research (IF=2.807)
41. Langmuir (IF=3.993)
42. Macromolecular Bioscience (IF=3.68)
43. Materials Science & Engineering C (IF=3.42)
44. Materials Today (IF=17.793)
45. Microbial Pathogenesis (IF=1.888)
46. Microbiology - Concepts and Applications (N/A)
47. Nanomedicine (UK) (IF=4.889)
48. Nanomedicine: NBM (IF=5.671)
49. Nanoscale (IF=7.76)
50. Nature Communications (IF=11.329)
51. Open Biomaterials Journal (N/A)

52. Orthopaedic Research and Reviews (N/A)
53. PLoS ONE (IF=3.057)
54. Recent Patents on Nanotechnology (IF=1.576)
55. Sensors and Actuators B (IF=4.758)
56. Tissue Engineering (IF=3.892)
57. Toxicology and Applied Pharmacology (IF=3.847)
58. Vaccine (IF=3.413)

#### 5.4. Review and Study Section

Position	Entity	Year(s)
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 AO Trauma's Clinical Priority Program: Bone Infection, AO Foundation, August 2016.	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 and Previous Grants and Contracts:** Dr. Li has been continuously funded externally since he became a faculty at WVU in 2005. Dr. Li has had 44 grants funded and has demonstrated a

record of successful and productive research projects on clinically relevant issues.

**6.2. Students Grants and Fellowships Mentored:** Dr. Li has mentored a total of 25 student grants or fellowships.

## 7. Undergraduate and Graduate Education

**7.1. Course/Lecture in Classroom Settings:** Dr. Li has given numerous classroom lectures in courses of Biomaterials, Drugs: Bench to Market, Drug discovery and development, and Biomedical engineering at WVU. His teaching has overall well accepted by the students and has received positive feedbacks from the students and his colleagues.

### 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).	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). 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 <sup>nd</sup> 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 <sup>st</sup> , 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	2009-2010

December 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 <sup>nd</sup> 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; Li committee member). Thesis title: Antibiotic-eluting nanotechnology coatings for potential prevention of device-associated infections. Ogle defended the thesis in October 2008.	2006-2008

### 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. Christopher Bell, MS1 INTRO Summer Research Program	6/8/2016-8/5/2016

20. Derek Andreini, MS1 INTRO Summer Research Program	6/8/2016-8/5/2016
21. Jessica Eiser, MD student	3/2016-5/2016
22. Jason Kang, MD graduate	3/1/2016-8/15/2016
23. Samantha Bleull, MS I, INTRO program	6/9/2015-8/7/2015
24. Kalin Fisher, MS I, INTRO program	6/9/2015-8/7/2015
25. Eli Joseph, Van Liere MD student	6/9/2014-7/31/2014
26. Varun Badami, Van Liere MD student (Lindsey mentor)	6/10/2013-8/9/2013
27. Alexander Conti, Van Liere MD student	6/10/2013-8/9/2013
28. Williams Artrip, Van Liere MD student	6/4/2012-8/3/2012
29. Ketu Patel, Van Liere MD student	6/4/2012-8/3/2012
30. Peter Farjo, Van Liere MD student	6/4/2012-8/3/2012
31. Chris Arena, Van Liere MD student	6/2011-8/2011
32. Jonathan Amoroso, Van Liere MD student	6/2011-8/2011
33. Danh Pham, Van Liere MD student	6/2010-8/2010
34. Steven Regal, Van Liere MD student	6/8/2009-7/31/2009
35. Michael Hagar, Van Liere MD student	6/8/2007-7/31/2007
36. Brian Kellermeyer, Van Liere MD student	6/8/2007-7/31/2007

#### **Undergraduate Students:**

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

63. Elizabeth DeFusco, WVNano SURE undergraduate student	6/2/2008-7/25/2008
64. Elizabeth DeFusco, undergraduate student researcher	9/1/2007-5/15/2009
65. Elizabeth DeFusco, WVNano SURE undergraduate student	6/2/2007-7/25/2007
66. Heather Ogle, undergraduate student researcher	9/2006-7/2008
67. Rajiv Bhattarai, Davis and Elkins College	5/2006-8/2006

### **High School Students:**

<b>Student/Trainee</b>	<b>Years</b>
68. Lixiang Tan, Morgantown High School student	6/8/2009-7/31/2009

### **Postdoctoral and research associates:**

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

### **Visiting scholars/professors:**

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

<b>Authors/Title/Conference/Date</b>	<b>Year</b>
1. <u>Li B.</u> <i>Invited Talk.</i> Institute of Metal Research, Chinese Academy of	2015

Sciences, Shenyang, China, June 2015.	
2. <u>Li B.</u> <i>Invited Talk</i> . Donghua University, Shanghai, China, June 2015.	2015
3. <u>Li B.</u> , X Wang. <i>Invited Talk</i> . Nanomaterials Research Center, Modern Textile Institute, Donghua University, Shanghai, China, May 2014.	2014
4. <u>Li B.</u> <i>Invited Talk</i> . Department of Materials Science and Engineering, Shanghai Jiaotong University, Shanghai, China, May 2014.	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> . The combined 9 <sup>th</sup> Asia Pacific Spine Society Congress, 9 <sup>th</sup> Asia Pacific Orthopaedic Association (APOA) Paediatric Section Congress, and 5 <sup>th</sup> 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> . The combined 9 <sup>th</sup> Asia Pacific Spine Society Congress, 9 <sup>th</sup> APOA Paediatric Section Congress, and 5 <sup>th</sup> 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> . The combined 9 <sup>th</sup> Asia Pacific Spine Society Congress, 9 <sup>th</sup> APOA Paediatric Section Congress, and 5 <sup>th</sup> APOA Infection Section Scientific Meeting, Kuching, Malaysia, August 2013.	2013
8. <u>Li B.</u> (2012). <i>Invited talk</i> . 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> . Dalian University of Technology, China, September, 2011.	2011
10. <u>Li B.</u> <i>Invited talk</i> . 2011 AO Foundation Board of Trustees Meeting, Berlin, Germany, July 2011.	2011
11. <u>Li B.</u> <i>Invited talk</i> . 2011 OTC (Osteosynthesis & Trauma Care Foundation) Leadership Forum, Madrid, Spain, June 2011.	2011
12. <u>Li B.</u> <i>Invited talk</i> . AOTrauma Clinical Priority Program on Bone Infection Meeting, Boston, MA, July 23, 2010.	2010
13. <u>Li B.</u> <i>Invited talk</i> . National Institute of Sports Medicine, Beijing, China, August 2009.	2009
14. <u>Li B.</u> <i>Invited talk</i> . Soochow University, Suzhou, China, August 2009.	2009
15. <u>Li B.</u> <i>Invited talk</i> . Donghua University, Shanghai, China, August 2009.	2009
16. <u>Li B.</u> <i>Invited talk</i> . Zhejiang University, Hangzhou, China, June 2007.	2007
17. <u>Li B.</u> <i>Invited talk</i> . Dalian Jiaotong University, Dalian, China, June 2007.	2007
18. <u>Li B.</u> <i>Invited talk</i> . Jilin University, Changchun, China, May 2007.	2007
19. <u>Li B.</u> <i>Invited talk</i> . Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China, May 2007.	2007

## 8.2. Invited Lectures and Presentations: National

Authors/Title/Conference/Date	Year
20. <u>Li B.</u> <i>Invited talk</i> . 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	2017

Infection. Orthopaedic Research Society (ORS) Annual Meeting. March 19-22, 2017, San Diego, CA.	
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> . NETL CO <sub>2</sub> Capture Technology Meeting, July 2014, Pittsburgh, PA.	2014
23. <u>Li B</u> . <i>Invited poster presentation</i> . NETL CO <sub>2</sub> Capture Technology Meeting, July 2012, Pittsburgh, PA.	2012
24. <u>Li B</u> . <i>Invited talk</i> . 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> . NETL CO <sub>2</sub> Capture Technology Meeting, September 2010, Pittsburgh, PA.	2010
26. <u>Li B</u> . <i>Invited talk</i> . 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> . 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> . 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> . 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> . Cool Tech Nanomedicine Event (Northern Virginia Technology Council), McLean, Virginia, November 18, 2008.	2008
31. <u>Li B</u> . <i>Invited talk</i> . Smith & Nephew Orthopaedics, Memphis, TN, August 2002.	2002
32. <u>Li B</u> . <i>Invited talk</i> . Stryker Howmedic Osteonics, Allendale, NJ, June 2002.	2002

### 8.3. Invited Lectures and Presentations: Local and Institutional

Authors/Title/Conference/Date	Year
1. <u>Li B</u> . <i>Invited poster presentation</i> . 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
2. Dr. Li's poster 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
3. <u>Li B</u> . <i>Invited poster presentation</i> . Third Annual Energy and Environmental Research Showcase at WVU (LIINC event), September 4, 2014. Morgantown, WV.	2014
4. <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
5. <u>Li B</u> , Jiang B, Lindsey BA, McKeague AL. (2011). <i>Invited poster</i>	2011

	<i>presentation. WVU Office of Technology Transfer event: DOD-related research showcase at WVU. Morgantown, WV. November 15, 2011.</i>	
6.	<u>Li B</u> (invited; a total of six). <i>Invited poster presentation. WVU Office of Technology Transfer event: Highlighting Innovation and Commercialization at WVU. Morgantown, WV. October 6, 2011.</i>	2011
7.	<u>Hamza T</u> . <i>Invited oral presentation. Research Day, School of Pharmacy, WVU. Morgantown, WV. October, 2011.</i>	2011
8.	<u>Li B</u> . <i>Invited talk. Inaugural Research Day, School of Pharmacy, WVU. Morgantown, WV. February 19, 2010.</i>	2010
9.	<u>Hamza T</u> , <u>Li B</u> . <i>Invited seminar presentation. Brown Bag Lunch Series, WVNano Initiative. WVU, February 12, 2010.</i>	2010
10.	<u>Li B</u> , Jiang B, Dietz M, Smith ES, Clovis N, Rao KMK. <i>Invited talk. WV STaR (Science, Technology and Research) Symposium, Charleston, WV, April 2009.</i>	2009
11.	<u>Li B</u> . <i>Invited seminar presentation. Department of Microbiology, Immunology, and Cell Biology, Morgantown, WVU, November 12, 2008.</i>	2008
12.	<u>Li B</u> . <i>Invited seminar presentation. Junior Nanotechnology Seminar I (Course: ENGR 493J), WVU, October 10, 2008.</i>	2008
13.	<u>Li B</u> . <i>Invited seminar presentation. National Institute for Occupational Safety and Health (NIOSH), Center for Disease Control, Morgantown, WV, September 2007.</i>	2007
14.	<u>Li B</u> . <i>Invited seminar presentation. MBR Cancer Center, WVU, August 2006.</i>	2006
15.	<u>Li B</u> . <i>Invited seminar presentation. Department of Chemical Engineering, WVU, February 2006.</i>	2006
16.	<u>Li B</u> . <i>Invited seminar presentation. Department of Mechanical and Aerospace Engineering, WVU, January 2006.</i>	2006

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

### 9.1. Patents and Patent Disclosures

1. Yan J, Li B, Liu X. **Provisional patent application** to USPTO (Application # 748), November 2016.
2. Li B, Wang X, Hopkinson D, Hoffman J, Egbebi A, Resnik K. **Provisional patent disclosure** (Application # 62/345,282), June 2016.
3. Yan J, Li B, Liu X. **US patent 20160172667 A1**. Date of publication: June 16, 2016.
4. Yan J, Li B, Liu X. **Provisional patent disclosure** (Application # 748), December 2015.
5. Yan J, Li B, Liu X. **Non-provisional patent disclosure** (Application # 62/090,654), December 2015.
6. Yan J, Li B, Liu X. **Provisional patent disclosure** (Application # 62/090,654), December 2014.
7. Li B\*, Jiang B, Gray ML, Fauth DJ, Pennline HW, Richards GA. (2014). **US patent 8,658,561 B2**. Date of patent: Feb. 25, 2014.
8. Li B\*, Jiang B, Fauth DJ, Gray ML, Pennline HW, Richards GA. **Non-provisional patent application** No. 13611651, September 2012.



9. Li B, Jiang B, Fauth DJ, Gray ML, Pennline HW, Richards GA. Provisional patent application No. 61/573,746, September 2011.
10. 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).
11. Varma A\*, Mukasyan A, Li B. (2005). **US Patent 6,896,846**.

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

1. 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=5.76) (In press).
2. Armstead AL, Li B\*. (2016). In vitro inflammatory effects of hard metal (WC-Co) nanoparticle exposure. **Int J Nanomed** (IF=4.32) 11:6195-206.
3. Armstead AL, Li B\*. (2016). Nano-toxicity: Emerging concerns regarding nanomaterial safety and occupational hard metal (WC-Co) nanoparticle exposure. **Int J Nanomed** (IF=4.32) 11:6421-33.
4. Wang Q, Yan J, Yang J, Li B\*. (2016). Nanomaterials promise better bone repair. **Materials Today** (IF=17.793) 19(8):451-63.
5. Yan J, Liu X, Li B\*. (2016). Capacity fade analysis of sulfur cathodes in lithium sulfur batteries. **Advanced Sciences** 1600101. DOI:10.1002/advs.201600101. Published online on 21 July 2016.
6. Wang X, Akhmedov NG, Hopkinson D, Hoffman J, Duan Y, Egbebi A, Resnik K, B Li\*. (2016). Phase change amino acid salt separates into CO<sub>2</sub>-rich and CO<sub>2</sub>-lean phases upon interacting with CO<sub>2</sub>. **Appl Energy** (IF=5.746) 161:41-7.
7. Yan J, Li B, Liu X\*. (2015). Nano-porous sulfur-polyaniline electrodes for lithium-sulfur batteries. **Nano Energy** (IF=11.553) 18:245-52.
8. 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=9.407). 27:6394-401.
9. 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=9.407) 27:5080-7.
10. Huang H, Chen AY, Ye X, Li B, Rojanasakul Y, Rankin GO, Chen YC\*. (2015). Myricetin inhibits proliferation of cisplatin-resistant cancer cells through a p53-dependent apoptotic pathway. **Int J Oncol** (IF=3.018) 47:1494-02. PMID: 26315556.
11. Wang X, Akhmedov NG, Duan Y, Li B\*. (2015). NMR studies of CO<sub>2</sub> absorption and desorption in aqueous sodium salt of alanine. **Energy & Fuels** (IF=2.835) 29:3780-4.
12. Armstead AL, Minarchick VC, Porter DW, Nurkiewicz TR, Li B\*. (2015). Acute inflammatory responses of nanoparticles in an intra-tracheal instillation rat model. **Plos One** (IF=3.057), 10(3):e0118778. PMC4349695.
13. Wang X, Chen YC, Li B\*. (2015). Aligning 3D nanofibrous networks from self-assembled phenylalanine nanofibers. **RSC Advances** (IF=3.289), 5:8022-7. PMC4303580.
14. Liu LZ\*, Ding M, Zheng JZ, Zhu Y, Fenderson BA, Li B, Yu JJ, Jiang BH. (2015). Tungsten carbide-cobalt nanoparticles induce reactive oxygen species, AKT, ERK, AP-1, NF-κB, VEGF, and angiogenesis. **Biol Trace Elem Res** (IF=1.798), 166:57-65. DOI: 10.1007/s12011-015-0331-6. PMID: 25893364.
15. Duan Y, Lekse J, Wang X, Li B, Alcántar-Vázquez B, Pfeiffer H, Halley JW. (2015). Electronic structural, phonon dynamic properties and CO<sub>2</sub> capture capabilities of Na<sub>2-a</sub>M<sub>a</sub>ZrO<sub>3</sub> (M=Li, K,

- $\alpha=0.0, 0.5, 1.0, 1.5, 2.0$ ): First-principles density functional theory investigations and experimental validations. **Phys Rev Appl** (IF=4.061), 3:044013.
16. Yan J, Liu X, Li B\*. (2015). Nano-assembled Na<sub>2</sub>FePO<sub>4</sub>F/carbon nanotube multi-layered cathodes for Na-ion batteries. **Electrochem Comm** (IF=4.569), 56:46-50.
  17. Yan J, Liu X, X Wang, Li B\*. (2015). Long-life, high-efficiency lithium/sulfur batteries from sulfurized carbon nanotube cathodes. **J Mater Chem A** (IF=8.262), 3:10127-33.
  18. Yan J, Liu X, Li B\*. (2014). Recent progress in Li-rich layered oxides as cathode materials for Li-ion batteries. **RSC Advances** (IF=3.289), 4(108):63268-84.
  19. Hamza T, Li B\*. (2014). Differential responses of osteoblasts and macrophages upon *Staphylococcus aureus* infection. **BMC Microbiology** (IF=2.581), 14:207. PMC4116603.
  20. Armstead A.L, Arena C.B, Li B\*. (2014). Exploring the potential role of tungsten carbide cobalt (WC-Co) nanoparticle internalization in observed toxicity toward lung epithelial cells *in vitro*. **Toxicol Appl Pharmacol** (IF=3.847), 278:1-8. PMC4062194.
  21. Duan Y\*, Zhang K, Li X, King D, Li B, Zhao L, Xiao Y. (2014). Ab initio thermodynamic study of the CO<sub>2</sub> capture properties of M<sub>2</sub>CO<sub>3</sub>(M=Na, K)- and CaCO<sub>3</sub>-promoted MgO sorbents towards forming double salts. **Aerosol Air Qual Res** (IF=2.393), 14(2) 470-9.
  22. Hamza T, Dietz M, Pham D, Clovis N, Danley S, Li B\*. (2013). Intra-cellular *Staphylococcus aureus* alone causes infection *in vivo*. **Eur Cells Mater** (IF=4.56), 25:341-50.
  23. Wang X, Ding B, Li B\*. (2013). Biomimetic electrospun nanofibrous structures for tissue engineering. **Materials Today** (IF=17.793), 16(6):229-41. PMC4130655.
  24. Li H, Hamza T, Tidwell JE, Clovis N, Li B\*. (2013). Unique antimicrobial effects of platelet-rich plasma and its efficacy as a prophylaxis to prevent implant-associated spinal infection. **Adv Healthcare Mater** (IF=5.76), 2:1277-84. PMC3774283.
  25. Noore J, Noore A, Li B\*. (2013). Cationic antimicrobial peptide LL-37 is effective against both extra- and intra-cellular *Staphylococcus aureus*. **Antimicrob Agents Chemother** (IF=4.415) 57(3):1283-90. PMC3591932.
  26. Li H, Li B\*. (2013). PRP as a new approach to prevent infection: Preparation and *in vitro* antimicrobial properties of PRP. **J Vis Exp (JoVE)** (IF=1.113) 74, e50351. PMC3653398.
  27. Luo H, Li B\*, Li Z, Cutler SJ, Rankin GO, Chen Y\*. (2013). Chaetoglobosin K inhibits tumor angiogenesis through down-regulation of VEGF-binding HIF-1 $\alpha$ . **Anti-cancer Drugs** (IF=2.268). 24:715-24. PMC3826813.
  28. Jiang B, Wang X, Gray ML, Duan Y, Luebke D, Li B\*. (2013). Development of amino acid and amino acid-complex based solid sorbents for CO<sub>2</sub> capture. **Appl Energy** (IF=5.746) 109:112-8.
  29. Wang X, Akhmedov NG, Duan Y, Luebke D, Li B\*. (2013). Immobilize amino acid ionic liquid into nanoporous microspheres as robust sorbents for CO<sub>2</sub> capture. **J Mater Chem A** (IF=8.262) 1(9):2978-82.
  30. Wang X, Akhmedov NG, Duan Y, Luebke D, Hopkinson D, Li B\*. (2013). Amino acid-functionalized ionic liquid solid sorbents for post-combustion carbon capture. **ACS Appl Mater Interfaces** (IF=7.145). 5(17):8670-7.
  31. Li B\*, Duan Y, Luebke D, Morreale B. (2013). Advances in CO<sub>2</sub> capture technology: A patent review. **Appl Energy** (IF=5.746) 102:1439-47.
  32. Duan Y\*, Pfeiffer H, Li B, Romero-Ibarra IC, Sorescu DC, Luebke DR, Halley JW. (2013). CO<sub>2</sub> capture properties of lithium silicates with different ratios of Li<sub>2</sub>O/SiO<sub>2</sub>: an ab initio thermodynamic and experimental approach. **Phys Chem Chem Phys** (IF=4.449), 15(32):13538-58. PMID: 23824271.

33. Boyce BM, Lindsey BA, Clovis NB, Smith ES, Hobbs GR, Hubbard DF, Emery SE, Barnett JB, Li B\*. (2012). Additive effects of exogenous IL-12 supplementation and antibiotic treatment in infection prophylaxis. **J Orthop Res** (IF=2.807) 30(2):196-202. PMC3699881.
34. Luo H, Jiang B, Li B\*, Li Z, Jiang BH, Chen Y\*. (2012). Kaempferol nanoparticles achieve strong and selective inhibition of ovarian cancer cell viability. **Int J Nanomed** (IF=4.32). 7:3951-9. PMC3410694.
35. Duan Y\*, Luebke DR, Pennline HW, Li B, Janik MJ, Halley JW. (2012). Ab initio thermodynamic study of the CO<sub>2</sub> capture properties of potassium carbonate sesquihydrate, K<sub>2</sub>CO<sub>3</sub>·1.5H<sub>2</sub>O. **J Phys Chem C** (IF=4.509). 116(27):14461-70.
36. Armstead AL, Li B\*. (2011). Nanomedicine as an emerging approach against intracellular pathogens. **Int J Nanomed** (IF=4.32) 6:3281-93. PMC3252676.
37. Li B\*, McKeague AL. (2011). IL-12 nanocoatings and microcapsules prevent open fracture infections. **Clin Orthop Relat Res** (IF=3.127) 469(11):3262-5. PMC3183209.
38. Jiang B, Kish V, Fauth DJ, Gray ML, Pennline HW, Li B\*. (2011). Performance of amine-multilayered solid sorbents for CO<sub>2</sub> removal: Effect of fabrication variables. **Int J Greenhouse Gas Control** (IF=4.064) 5:1170-5.
39. Li B\*, Jiang B, Fauth DJ, Gray ML, Pennline HW, Richards GA\*. (2011). Innovative nano-layered solid sorbents for CO<sub>2</sub> capture. **Chem Comm** (IF=6.567) 47:1719-21. PMID: 21127800.
40. Zhao Q, Li H, Li B\*. (2011). Nanoencapsulating living biological cells using electrostatic layer-by-layer self-assembly: platelets as a model. **J Mater Res** (IF=1.579) 26(2):347-51. PMC3045201.
41. Jiang B, DeFusco E, Li B\*. (2010). Polypeptide multilayer film co-delivers oppositely-charged drug molecules in sustained manners. **Biomacromolecules** (IF=5.583) 11(12):3630-7. PMC3006044.
42. Li H, Ogle H, Jiang B, Hagar M, Li B\*. (2010). Cefazolin embedded biodegradable polypeptide nanofilms promising for infection prevention: A preliminary study on cell responses. **J Orthop Res** (IF=2.807) 28:992-9. PMC3699871.
43. Li B\*, Jiang B, Dietz MJ, Smith ES, Clovis NB, Rao KMK. (2010). Evaluation of local MCP-1 and IL-12 nanocoatings for infection prevention in open fractures. **J Orthop Res** (IF=2.807) 28:48-54. PMC3886371.
44. Hamza T, Barnett JB, Li B\*. (2010). Interleukin 12 a key immunoregulatory cytokine in infection applications. **Int J Mol Sci** (IF=3.257) 11:789-806. PMC2869233.
45. Li B\*, Jiang B, Boyce B, Lindsey B. (2009). Multilayer polypeptide nanoscale coatings incorporating IL-12 for the prevention of biomedical device-associated infections. **Biomaterials** (IF=8.387) 30:2552-8. PMC3699876.
46. Jiang B, Li B\*. (2009). Tunable drug incorporation and release from polypeptide multilayer nanofilms. **Int J Nanomed** (IF=4.32) 4:37-53. PMC2720742.
47. Jiang B, Li B\*. (2009). Polypeptide nanotechnology coatings for preventing dental and orthopaedic device-associated infection. **J Biomed Mater Res B** (IF=3.263) 88B(2):332-8. PMID: 18161817.
48. Jiang B, Barnett JB, Li B\*. (2009). Advances in polyelectrolyte multilayer nanofilms as tunable drug delivery systems (invited mini review). **Nanotechnol Sci Appl** 2:21-7. PMC3781750.
49. Zhao Q, Li B\*. (2008). pH-controlled drug loading and release from biodegradable microcapsules. **Nanomedicine** (IF=5.671) 4:302-10. PMC3699869.
50. Likibi F, Jiang B, Li B\*. (2008). Biomimetic nanocoating promotes osteoblast cell adhesion on biomedical implants. **J Mater Res** (IF=1.579) 23(12):3222-8.

51. Li B, Rozas J, Haynie DT. (2006). Structural stability of polypeptide nanofilms under extreme conditions. **Biotechnol Prog** (IF=2.167) 22(1);111-7. PMID: 16454500.
52. Zhong Y, Li B, Haynie DT. (2006). Fine tuning of physical properties of designed polypeptide multilayer films by control of pH. **Biotechnol Prog** (IF=2.167) 22(1);126-32. PMID: 16454502.
53. Zhong Y, Li B, Haynie DT. (2006). Control of stability of polypeptide multilayer nanofilms by quantitative control of disulfide bond formation. **Nanotechnology** (IF=3.573) 17;5726-34.
54. Li B, Haynie DT, Palath N, Janisch D. (2005). Nano-scale biomimetics: fabrication and optimization of stability of peptide-based thin films. **J Nanosci Nanotechn** (IF=1.338) 12(5);2042-9. PMID: 16430138.
55. Haynie DT, Palath N, Liu Y, Li B, Pargaonkar N. (2005). Biomimetic nanotechnology: inherent reversible stabilization of polypeptide microcapsules. **Langmuir** (IF=3.993) 21(3);1136-8. PMID: 15667201.
56. Zhang L, Li B, Zhi Z, Haynie DT. (2005). Perturbation of nanoscale structure of polypeptide multilayer thin films. **Langmuir** (IF=3.993) 21(12);5439-45. PMID: 15924473.
57. Li B, Haynie DT. (2004). Multilayer biomimetics: reversible covalent stabilization of a nanostructured biofilm. **Biomacromolecules** (IF=5.583) 5(5);1667-70. PMID: 15360273.
58. Li B, Mukasyan A, Varma A. (2003). Combustion synthesis of CoCrMo (F-75) implant alloy: microstructure and properties. **Mater Res Innov** (IF=1.723) 7(4);245-52.
59. Varma A, Li B, Mukasyan A. (2002). Novel synthesis of orthopaedic implant materials. **Adv Eng Mater** (IF=1.761) 4(7);482-7.
60. Li B, Rong LJ, Li YY, Gjunter VE. (2001). Electric resistance phenomena in porous Ni-Ti shape memory alloys produced by SHS. **Scripta Materialia** (IF=3.305) 44(5);823-7.
61. Li B, Rong LJ, Li YY, Gjunter VE. (2000). Synthesis of porous Ni-Ti SMA by SHS: reaction mechanism and anisotropy in pore structure. **Acta Materialia** (IF=5.058) 48(15);3895-904.
62. Li B, Rong LJ, Li YY, Gjunter VE. (2000). Fabrication of cellular NiTi intermetallic compounds. **J Mater Res** (IF=1.579) 15(1);10-3.
63. Li B, Rong LJ, Li YY, Gjunter VE. (2000). A recent development in producing porous Ni-Ti shape memory alloys. **Intermetallics** (IF=2.541) 8(8);881-4.
64. Li B, Rong LJ, Li YY, Gjunter VE. (2000). An investigation of the synthesis of Ti-50at%Ni alloys through combustion synthesis and conventional powder sintering. **Metall Mater Trans A** (IF=1.749) 31(7);1867-71.
65. Li B, Rong LJ, Li YY, Gjunter VE. (2000). Porous Ni-Ti shape memory alloys produced by two different methods. **Z Metallkd** (IF=0.723) 91(4);291-5.
66. Li B, Rong LJ, Li YY, Gjunter VE. (2000). Development of biomedical porous Ti-Ni shape memory alloys. **Chinese J Mater Res** (Chinese edition) 14(6);561-7.
67. Li B, Rong LJ, Li YY. (2000). Stress-strain behavior of Ni-Ti intermetallics synthesized from powder sintering. **Intermetallics** (IF=2.541) 8(5-6);643-6.
68. Li B, Rong LJ, Li YY. (2000). The influence of addition of TiH<sub>2</sub> in elemental powder sintering porous Ni-Ti alloys. **Mater Sci Eng A-Struct** (IF=2.647) A281;169-75.
69. Li B, Rong LJ, Luo XH, Li YY. (1999). Transformation behavior of sintered porous NiTi alloys. **Metall Mater Trans A** (IF=1.749) 30;2753-6.
70. Li B, Rong LJ, Li YY, Gjunter VE. (1999). Deformation behavior of porous NiTi shape memory alloy and effect of thermal-mechanical cycling on shape memory property. **Acta Metall Sin** (IF=0.523) (Chinese edition) 35(4);362-4.

71. Li B, Rong LJ, Li YY. (1999). Microstructure and superelasticity of porous NiTi alloy. **Sci China Ser E** (IF=**0.729**) 42(1);94-9 (in English) (IF=**0.682**). **Sci China Ser E** 29(1);11-5 (in Chinese).
72. Li B, Rong LJ, Li YY. (1998). Porous NiTi alloy prepared from elemental powder sintering. **J Mater Res** (IF=**1.579**) 10(13);2847-51.
73. Li B, Rong LJ, Li YY. (1998). Anisotropy of dimensional change and its corresponding improvement by addition of TiH<sub>2</sub> during elemental powder sintering of porous NiTi alloy. **Mater Sci Eng A-Struct** (IF=**2.647**) A255;70-4.

### 9.3. Non-Peer-Reviewed Invited Publications

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

### 9.4. Book Chapters

75. 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.
76. Wang X, Li B\*. (2015). Phase-change solvents for CO<sub>2</sub> capture. In Book “**Novel Materials for Carbon Dioxide Mitigation Technology** (ISBN 9780444632593).” Fan S and Morreale B, Eds. Elsevier. P.3-22. DOI: <http://dx.doi.org/10.1016/B978-0-444-63259-3.00001-X> or <http://www.sciencedirect.com/science/article/pii/B978044463259300001X>.
77. Wang X, Li B\*. (2014). Electrospun nanofibrous sorbents and membranes for carbon dioxide capture. In Book “**Electrospun Nanofibers for Energy and Environmental Applications** (ISBN 978-3-642-54159-9).” Ding B and Yu J, Eds. Springer. P.249-63. DOI: 10.1007/978-3-642-54160-5\_10.
78. Wang X, Duan Y, Li B\*. (2012). Development and evaluation of fibrous adsorbents for carbon dioxide removal. In Book “**Atmosphere and Climate: Physics, Composition/Dynamics and Health Impacts** (ISBN 978-1-62417-433-9).” Wright A and Johnson S, Eds. Nova Science Publishers, Inc. NY, USA. P.83-98.
79. Li H, Li B\*. (2011). Platelet-rich plasma: its biological properties and applications. In Book “**Advances in Condensed Matter and Materials Research, Volume 8** (ISBN 978-1-60876-159-3).” Geelvinck H and Reynst S, Eds. Nova Science Publishers, Inc. NY, USA. P.53-73.
80. 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.
81. 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>Hughes K</u> , Kang J, Noore J, Li B. <i>Poster presentation</i> . The 1 <sup>st</sup> Annual Undergraduate Spring Symposium at West Virginia University, Morgantown, WV, April 8, 2017.	2017
2. <u>Li B</u> , Wang Q. <i>Oral presentation</i> . Society for Biomaterials (SFB) Annual Meeting, Minneapolis, MN, April 4-8, 2017.	<b>2017</b>

3.	<u>Kang J</u> , Hughes, K, Noore J, Li B. <i>Poster presentation</i> . The E.J. Van Liere Research Day, Morgantown, WV, March 23-24, 2017.	2017
4.	<u>Hughes K</u> , Kang J, Noore J, Li B. <i>Poster presentation</i> . The E.J. Van Liere Research Day, Morgantown, WV, March 23-24, 2017.	2017
5.	<u>Andreini D</u> , Bell C, Noore J, Li B. <i>Poster presentation</i> . The E.J. Van Liere Research Day, Morgantown, WV, March 23-24, 2017.	2017
6.	<u>Bell C</u> , Andreini D, Noore J, Li B. <i>Poster presentation</i> . The E.J. Van Liere Research Day, Morgantown, WV, March 23-24, 2017.	2017
7.	<u>Roberts E</u> , Li B. <i>Poster presentation</i> . The Undergraduate Research Day at the Capitol, Charleston, WV, Feb. 24, 2017.	2017
8.	<u>B Li</u> , Q Wang, S Bleull, J Noore, J Wang. <i>Poster presentation</i> . Orthopaedic Research Society (ORS) Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
9.	<u>J Kang</u> , J Noore, B Li. <i>Poster presentation</i> . ORS Annual Meeting. March 19-22, 2017, San Diego, CA.	2017
10.	<u>Li B</u> , Armstead A. <i>Poster presentation</i> . 10 <sup>th</sup> World Biomaterials Congress (WBC), Montreal, Canada, May 17-22, 2016.	<b>2016</b>
11.	<u>Li B</u> , Armstead A. <i>Poster presentation</i> . ORS Annual Meeting. March 3-9, 2016, Orlando, FL.	<b>2016</b>
12.	<u>Rutter P</u> , Yan J, Wang Q, Noore J, Yang J, and Li B. <i>Poster presentation</i> . The E.J. Van Liere Research Day Morgantown, WV, March 4, 2016.	2016
13.	<u>Rutter P</u> , Yan J, Wang Q, Noore J, Yang J, and Li B. <i>Poster presentation</i> . The Undergraduate Research Day at the Capitol, Charleston, WV, Feb. 25, 2016.	2016
14.	<u>Li B</u> , Noore J. <i>Poster presentation</i> . Materials Research Society (MRS) Fall Annual Meeting, Boston, MA, November 29-December 4, 2015.	<b>2015</b>
15.	<u>Yan J</u> , Liu X, and Li B. <i>Oral presentation</i> . 228 <sup>th</sup> meeting, Oct. 10-15, 2015, Phoenix, AZ.	<b>2015</b>
16.	<u>Rutter P</u> , Yan J, Noore J, and Li B. <i>Poster presentation</i> . Summer Research Symposium, West Virginia IDeA Network of Biomedical Research Excellence, Huntington, WV, July 27, 2015.	2015
17.	<u>Yan J</u> , Liu X, and Li B. <i>Oral presentation</i> . 227 <sup>th</sup> Electrochemical Society (ECS) Annual Meeting, May 24-28, 2015, Chicago, IL.	<b>2015</b>
18.	<u>Li B</u> , Wang X. <i>Poster presentation</i> . Society for Biomaterials (SFB) Annual Meeting, Charlotte, NC, April 15-18, 2015.	<b>2015</b>
19.	<u>Li B</u> , Wang X. <i>Poster presentation</i> . ORS Annual Meeting. March 2015, Las Vegas, NV.	<b>2015</b>
20.	<u>Li B</u> , Hamza T. <i>Poster presentation</i> . ORS Annual Meeting. March 2015, Las Vegas, NV.	<b>2015</b>
21.	<u>Joseph E</u> , Noore J, Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, February 2015.	2015
22.	<u>Wang X</u> , Chen Y, Li B. <i>Oral presentation</i> . MRS Annual Meeting, Boston, MA, Nov. 30-Dec. 5, 2014.	<b>2014</b>
23.	<u>Li B</u> , Noore J. <i>Poster presentation</i> . MRS Annual Meeting, Boston, MA, Nov. 30-Dec. 5, 2014.	<b>2014</b>
24.	<u>Li B</u> , Farjo P, Hamza T, McConda D, Lindsey B, Clovis N, Smith S. <i>Poster</i>	2014

<i>presentation. 2014 West Virginia Clinical &amp; Translational Science Institute (WVCTSI) Annual Meeting, September 29-30, 2014. Stonewall Resort, Roanoke, WV.</i>	
25. <u>Li B.</u> <i>Poster presentation. 2014 WVCTSI Annual Meeting, September 29-30, 2014. Stonewall Resort, Roanoke, WV.</i>	2014
26. <u>Yan J</u> , Liu X, and Li B. <i>Oral presentation. 225<sup>th</sup> ECS Annual Meeting, May 11-15, 2014, Orlando, FL.</i>	<b><u>2014</u></b>
27. <u>Li B</u> , Noore J, Artrip W, McHenry S. <i>Oral presentation. SFB Annual Meeting. Apr. 2014, Denver, CO.</i>	<b><u>2014</u></b>
28. <u>Li B</u> , Noore J, Artrip W, McHenry S. <i>Poster presentation. ORS Annual Meeting. March 2014, New Orleans, LA.</i>	<b><u>2014</u></b>
29. <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. ORS Annual Meeting. March 2014, New Orleans, LA.</i>	<b><u>2014</u></b>
30. <u>Conti A</u> , Noore J, Cuff C, Li B. <i>Poster presentation. Feb. 27-28, 2014, Van Liere Research Day, Morgantown, WV.</i>	2014
31. <u>Badami V</u> , Noore J, Li B, Lindsey B. <i>Poster presentation. Feb. 27-28, 2014, Van Liere Research Day, Morgantown, WV.</i>	2014
32. <u>Armstead A</u> , Li B. <i>Poster presentation. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, San Antonio, TX, November 2013.</i>	<b><u>2013</u></b>
33. <u>Armstead A</u> , Li B. <i>Poster presentation. 5<sup>th</sup> Annual American Association of Pharmaceutical Scientists (AAPS) Pittsburgh Chapters Student Research Symposium, Pittsburgh, PA, November 2013.</i>	2013
34. <u>Winkie C</u> , Wang C, Wang X, Li B. <i>Poster presentation. WV-INBRE Summer Symposium, Huntington, WV, July 2013.</i>	2013
35. <u>Wang X</u> , Akhmedov NG, Duan Y, Luebke D, Li B. <i>Oral presentation. The International Conference on Carbon Dioxide Utilization (ICCDU) XII 2013, Alexandria, VA, June 2013.</i>	<b><u>2013</u></b>
36. <u>Li B</u> , Jiang B, Wang X. <i>Oral presentation. The International Conference on Carbon Dioxide Utilization (ICCDU) XII 2013, Alexandria, VA, June 2013.</i>	<b><u>2013</u></b>
37. <u>Armstead A</u> , Li B. <i>Poster presentation. 27<sup>th</sup> Annual Meeting of the Allegheny-Erie Society of Toxicology Regional Chapter, Morgantown, WV, May 30-31, 2013.</i>	2013
38. <u>Duan Y</u> , Sorescu DC, Luebke DR, Morreale B, Li B, Zhang K, Li X, King D. <i>Oral presentation. The 12<sup>th</sup> Annual Carbon Capture, Utilization and Sequestration (CCUS) Conference, Pittsburgh, PA, May 2013.</i>	2013
39. <u>Li B</u> , Farjo, P, Hamza T. <i>Poster presentation. SFB Annual Meeting, Boston, MA, April 2013.</i>	<b><u>2013</u></b>
40. <u>Wang X</u> , Akhmedov NG, Duan Y, Luebke D, Li B. <i>Oral presentation. 245<sup>th</sup> ACS Annual Meeting, New Orleans, LA, April 2013.</i>	<b><u>2013</u></b>
41. <u>Wang X</u> , Jiang B, Gray ML, Duan Y, Luebke D, Li B. <i>Oral presentation. 245<sup>th</sup> ACS Annual Meeting, New Orleans, LA, April 2013.</i>	<b><u>2013</u></b>
42. <u>Duan Y</u> , Sorescu DC, Luebke DR, Morreale B, Li B, Zhang K, Li X, King D. <i>Oral presentation. 245<sup>th</sup> ACS Annual Meeting, New Orleans, LA, April 2013.</i>	2013

43.	<u>Armstead A</u> , Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, February 2013.	2013
44.	<u>Farjo P</u> , Hamza T, Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, February 2013.	2013
45.	<u>Patel K</u> , Armstead AL, Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, February 2013.	2013
46.	<u>Li B</u> , Farjo P, Hamza T, McConda D, Lindsey B, Clovis N, Smith S. <i>Oral presentation</i> . ORS Annual Meeting. January 2013, San Antonio, TX.	<b><u>2013</u></b>
47.	<u>Li B</u> , Jiang B, Li H. <i>Oral presentation</i> . ORS Annual Meeting. January 2013, San Antonio, TX.	<b><u>2013</u></b>
48.	<u>Armstead A</u> , Li B. <i>Oral presentation</i> . 4 <sup>th</sup> Annual American Association of Pharmaceutical Scientists (AAPS) Pittsburgh Chapters Student Research Symposium, Pittsburgh, PA, November 2012.	2012
49.	<u>Li B</u> , Hamza T. <i>Oral presentation</i> . SFB Annual Meeting, New Orleans, LA, October 2012.	<b><u>2012</u></b>
50.	<u>Armstead A</u> , Li B. <i>Poster presentation</i> . 4 <sup>th</sup> International NanoBio Conference, Seattle, WA, July 23-26, 2012.	2012
51.	<u>McHenry S</u> , Artrip W, Noore J, Li B. <i>Poster presentation</i> . WVU Summer Undergraduate Research Symposium, Morgantown, WV, July 26, 2012.	2012
52.	<u>Li B</u> , Noore J. <i>Oral presentation</i> . 9 <sup>th</sup> World Biomaterials Congress (WBC), 6/1/2012-6/5/2012, Chengdu, China.	<b><u>2012</u></b>
53.	<u>Li B</u> , Jiang B, Li H. <i>Oral presentation</i> . 9 <sup>th</sup> WBC, 6/1/2012-6/5/2012, Chengdu, China.	<b><u>2012</u></b>
54.	<u>Arena C</u> , Armstead AL, Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, March 2012.	2012
55.	<u>Amoroso J</u> , Hamza T, Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, March 2012.	2012
56.	<u>Armstead AL</u> , Arena C, Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, March 2012.	2012
57.	<u>Hamza T</u> , Li B. <i>Poster presentation</i> . Van Liere Research Day, Morgantown, WV, March 2012.	2012
58.	<u>Duan Y</u> , Jiang B, Gray M, Luebke D, Li B. <i>Oral presentation</i> . ACS Spring Annual Meeting, San Diego, CA, March, 2012.	2012
59.	<u>Li H</u> , Hamza T, Clovis NB, Smith ES, Tidwell JE, Li B. (2012). <i>Oral presentation</i> . ORS Annual Meeting. Feb. 4-7, 2012, San Francisco, CA.	<b><u>2012</u></b>
60.	<u>Li B</u> , Noore J, Kurian S, Noore A. (2012). <i>Poster presentation</i> . ORS Annual Meeting. Feb. 4-7, 2012, San Francisco, CA.	<b><u>2012</u></b>
61.	<u>Hamza T</u> , Li B. (2012). <i>Poster presentation</i> . ORS Annual Meeting. Feb. 4-7, 2012, San Francisco, CA.	<b><u>2012</u></b>
62.	<u>Li B</u> , Noore J, Noore A. <i>Poster presentation</i> . SFB Annual Meeting, Orlando, FL, April 2011.	<b><u>2011</u></b>
63.	<u>Jiang B</u> , Li B, Fauth DJ, Gray ML, Pennline HW, Richards GA. <i>Oral presentation</i> . ACS Annual Meeting, Anaheim, CA, March 2011.	<b><u>2011</u></b>
64.	<u>Pham D</u> , Hamza T, Dietz M, Tidwell J, Jones A, Clovis N, Smith S, Li B.	2011



	<i>Oral presentation.</i> Van Liere Research Day, Morgantown, WV, March 2011.	
65.	<u>Pham D</u> , Hamza T, Dietz M, Tidwell J, Jones A, Clovis N, Smith S, Li B. <i>Poster presentation.</i> Van Liere Research Day, Morgantown, WV, March 2011.	2011
66.	<u>Hamza T</u> , Li B. <i>Poster presentation.</i> Van Liere Research Day, Morgantown, WV, March 2011.	2011
67.	<u>Hamza T</u> , Pham D, Dietz M, Tidwell J, Jones A, Clovis N, Smith S, Li B. <i>Poster presentation.</i> ORS Annual Meeting, Long Beach, California, January 2011.	<b>2011</b>
68.	<u>Jiang B</u> , Jiang BH, Li B. <i>Oral presentation.</i> ORS Annual Meeting, Long Beach, California, January 2011.	<b>2011</b>
69.	<u>Boyce B</u> , Lindsey B, Clovis NB, Smith ES, Hubbard D, Li B. <i>Oral presentation.</i> ORS Annual Meeting, Long Beach, California, January 2011.	<b>2011</b>
70.	<u>Noore A</u> , Noore J, Li B. <i>Oral and poster presentations.</i> ORS Annual Meeting, Long Beach, California, January 2011.	<b>2011</b>
71.	<u>Li B</u> , Armstead A, McKeague AL, Kolanko C, et al. <i>Poster presentation.</i> Advanced Technology Applications for Combat Casualty Care (ATACCC) Annual Meeting, August 2010, St. Pete Beach, FL.	<b>2010</b>
72.	<u>Li B</u> , Hamza T, McKeague AL, Kolanko C, et al. <i>Poster presentation.</i> ATACCC Annual Meeting, August 2010, St. Pete Beach, FL.	<b>2010</b>
73.	<u>Regal S</u> , Li H, Hamza T, Knittle S, Li B. <i>Poster presentation.</i> Van Liere Research Day, Morgantown, WV, April 2010.	2010
74.	<u>Hamza T</u> , Armstead A, Li B. <i>Poster presentation.</i> Van Liere Research Day, Morgantown, WV, April 2010.	2010
75.	<u>Hamza T</u> , Jiang B, Li B. <i>Poster presentation.</i> WVNano Research Symposium, Morgantown, WV, April 2010.	2010
76.	<u>Jiang B</u> , Li H, Li B. <i>Oral presentation.</i> SFB Annual Meeting, Seattle, WA, April 21-24, 2010.	<b>2010</b>
77.	Jiang B, Li H, <u>Li B</u> . <i>Poster presentation.</i> ORS Annual Meeting, New Orleans, LA, March 6 - 9, 2010.	<b>2010</b>
78.	<u>Li H</u> , Jiang B, Li B. <i>Poster presentation.</i> ORS Annual Meeting, New Orleans, LA, March 6 - 9, 2010.	<b>2010</b>
79.	<u>Li H</u> , Hamza T, Li B. <i>Poster presentation.</i> ORS Annual Meeting, New Orleans, LA, March 6 - 9, 2010.	<b>2010</b>
80.	<u>Li B</u> , Jiang B, Dietz M, Smith ES, Clovis N, Rao, KMK. <i>Poster presentation.</i> MRS Fall Annual Meeting, Boston, MA, Nov. 30-Dec. 4, 2009.	<b>2009</b>
81.	<u>Hamza T</u> , Li H, Jiang B, Knittle S, Li B. <i>Poster presentation.</i> The 21 <sup>st</sup> EPSCoR National Conference (NSF), JW Marriott in Washington, DC, Oct. 19-21, 2009.	2009
82.	<u>Li B</u> , Kolanko C, Hubbard DF, Emery SE, Brundage K, Thomas JG. <i>Poster presentation.</i> ATACCC Annual Meeting, St. Pete Beach, FL, Aug. 10-12, 2009.	<b>2009</b>
83.	<u>Li B</u> , Li HK, Shuler FD, Emery SE, Kolanko C, Thomas JG, Brundage K, Barnett JB. <i>Poster presentation.</i> ATACCC Annual Meeting, St. Pete Beach, FL, Aug. 10-12, 2009.	<b>2009</b>

84.	Knittle S, Regal S, Li H, Jiang B, Li B. <i>Poster presentation</i> . WVNano SURE Symposium, Morgantown, WV, July 2009.	2009
85.	<u>Hamza T</u> , Li H, Ogle H, Li B. <i>Poster presentation</i> . WVNano Research Symposium, Morgantown, WV, May 2009.	2009
86.	<u>Li B</u> , Jiang B, Zhao Q, Lindsey B, Boyce B, Dietz M, Hubbard D. <i>Poster presentation</i> . SFB Annual Meeting, San Antonio, TX, April 2009.	<b>2009</b>
87.	<u>Jiang B</u> , DeFusco E, Li B. <i>Oral presentation</i> . SFB Annual Meeting, San Antonio, TX, April 2009.	<b>2009</b>
88.	<u>Zhao Q</u> , Li B. <i>Poster presentation</i> . SFB Annual Meeting, San Antonio, TX, April 2009.	<b>2009</b>
89.	<u>DeFusco E</u> , Jiang B, Kish V, Li B. <i>Undergraduate poster presentation</i> . WV STaR Symposium, Charleston, WV, April 2009.	2009
90.	<u>Li B</u> , Zhao Q, Dietz MJ, Clovis NB, Smith ES, Noore J. <i>Oral presentation</i> . ORS Annual Meeting, Las Vegas, Nevada, February 2009.	<b>2009</b>
91.	<u>DeFusco E</u> , Jiang B, Li B. <i>Poster presentation</i> . WVNano SURE Symposium, Morgantown, WV, July 23, 2008.	2008
92.	<u>Knittle S</u> , Ogle H, Li H, Li B. <i>Poster presentation</i> . WVNano SURE Symposium, Morgantown, WV, July 23, 2008.	2008
93.	<u>Li B</u> . <i>Oral presentation</i> . Multifunctional Nanomaterials International Symposium, Roanoke, WV, April 2008.	2008
94.	<u>Hamza T</u> , Li B. <i>Poster presentation</i> . Multifunctional Nanomaterials International Symposium, Roanoke, WV, April 2008.	2008
95.	<u>Kellermeyer B</u> , Li B. <i>Poster presentation</i> . Van Liere Memorial Convocation and Research Day, Morgantown, WV, April 2008.	2008
96.	<u>Hagar M</u> , Li B. <i>Poster presentation</i> . Van Liere Memorial Convocation and Research Day, Morgantown, WV, April 2008.	2008
97.	<u>Li B</u> , Jiang B, Boyce BM, Lindsey BA. <i>Oral presentation</i> . ORS Annual Meeting, San Francisco, CA, March 2008.	<b>2008</b>
98.	<u>Ogle H</u> , Hamza T, Li B. <i>Poster presentation</i> . WV Undergraduate Research Day at the Capitol, Charleston, WV, January 2008.	2008
99.	<u>Kellermeyer B</u> , Hagar M, DeFusco E, Li B. <i>Poster presentation</i> (invited). WVU Research Poster Session, Morgantown, WV, October 2007.	2007
100.	<u>Kellermeyer B</u> , Hagar M, DeFusco E, Li B. <i>Poster presentation</i> . WV STaR Symposium 2007, Morgantown, WV, September 2007.	2007
101.	<u>Ogle H</u> , Jiang B, Thomas JG, Li B. <i>Oral presentation</i> . 2007 Biomedical Engineering Society (BMES) Annual Meeting, Los Angeles, CA, September 2007.	<b>2007</b>
102.	<u>DeFusco E</u> , Jiang B, Li B. <i>Poster presentation</i> . WVNano SURE Symposium, Morgantown, WV, July 26, 2007.	2007
103.	<u>Li B</u> , Jiang B, Lindsey B, Boyce B, Salihu S, Kish V, Hubbard D. <i>Poster presentation</i> . SFB Annual Meeting, Chicago, IL, April 2007.	<b>2007</b>
104.	<u>Jiang B</u> , Li B. <i>Poster presentation</i> . SFB Annual Meeting, Chicago, IL, April 2007.	<b>2007</b>
105.	<u>Li B</u> , Jiang B. <i>Poster presentation</i> . ORS Annual Meeting, San Diego, CA,	<b>2007</b>

February 2007.	
106. <u>Bhattarai R</u> , Jiang B, Li B. <i>Poster presentation</i> . WV-INBRE Summer Research Symposium, Morgantown, WV, August 2006.	2006
107. <u>Li B</u> , Zhong Y, Haynie DT. <i>Poster presentation</i> . SFB Annual Meeting, Pittsburgh, PA, April 2006.	<b>2006</b>
108. <u>Li B</u> , Zhong Y, Haynie DT. <i>Oral presentation</i> . MRS Spring Annual Meeting, San Francisco, CA, April 2006.	<b>2006</b>
109. <u>Zhong Y</u> , Li B, Haynie D. <i>Poster presentation</i> . The 57 <sup>th</sup> Southeast/61 <sup>st</sup> Southwest Regional ACS Meeting, Memphis, TN, November 2005.	2005
110. <u>Li B</u> , Zhong Y, Haynie DT. <i>Oral presentation</i> . MRS Spring Annual Meeting, San Francisco, CA, March 2005.	<b>2005</b>
111. Haynie DT, <u>Li B</u> . <i>Oral presentation</i> . 10 <sup>th</sup> Institute of the Biological Engineering IBE Annual Meeting, Athens, GA, March 2005.	2005
112. <u>Li B</u> , Mukasyan A, Varma A. <i>Poster presentation</i> 28 <sup>th</sup> SFB Annual Meeting, Tampa, FL, April, 2002.	2002
113. <u>Li B</u> , Mukasyan A, Varma A. <i>Poster presentation</i> . The 21 <sup>st</sup> Century Research & Technology Day, Indianapolis, IN, January 2001.	2001
114. <u>Li B</u> , Rong L, Li Y. <i>Poster presentation</i> . IUMRS-ICAM'99, Beijing, China, June 1999.	1999
115. Li B, Li Y, Rong L. <i>Poster presentation</i> . The 3 <sup>rd</sup> Youth Academic Annual Meeting, Liaoning Province.	1998

#### 9.6. Other Presentations at the Department Level or without Abstracts

Authors/Title/Conference/Date	Year
116. <u>Li B</u> . <i>Oral presentation</i> . Annual Resident Research Symposium, Department of Orthopaedics, West Virginia University, Morgantown, WV, May 5, 2017.	2017
117. <u>Bell C</u> , Andreini D, Noore J, Li B. <i>Oral presentation</i> . Summer Student Research Day, Department of Orthopaedics, Morgantown, WV, Aug. 5, 2016.	2016
118. <u>Andreini D</u> , Bell C, Noore J, Li B. <i>Oral presentation</i> . Summer Student Research Day, Department of Orthopaedics, Morgantown, WV, Aug. 5, 2016.	2016
119. <u>Kang J</u> , <u>Roberts E</u> , Noore, J, Li B. <i>Oral presentation</i> . Summer Student Research Day, Department of Orthopaedics, Morgantown, WV, Aug. 5, 2016.	2016
120. <u>Li B</u> . <i>Oral presentation</i> . Resident Research Day, Department of Orthopaedics. May 16, 2014, Morgantown, WV.	2014
121. <u>Wang X</u> , Ding B, Li B. <i>Poster presentation</i> . Materials Today: Biomaterials virtual conference, November 19-21, 2013.	2013
122. <u>Artrip W</u> , McHenry S, Noore J, Li B. <i>Oral presentation</i> . Summer Student Presentation Meeting, Department of Orthopaedics, August 3, 2012.	2012
123. <u>Patel K</u> , Armstead A, Li B. <i>Oral presentation</i> . Summer Student Presentation Meeting, Department of Orthopaedics, August 3, 2012.	2012
124. <u>Farjo P</u> , et al., Li B. <i>Oral presentation</i> . Summer Student Presentation	2012

Meeting, Department of Orthopaedics, August 3, 2012.	
125. <u>Armstead A</u> , Hamza T, Li B. <i>Poster presentation</i> . Research Day, School of Pharmacy, WVU. Morgantown, WV. October, 2010.	2010
126. <u>Hamza T</u> , Jiang B, Li B. <i>Poster presentation</i> . Inaugural Research Day, School of Pharmacy, WVU. Morgantown, WV. February 19, 2010.	2010
127. <u>Hamza T</u> . <i>Oral seminar presentation</i> . Pharmaceutical Spring Seminar, WVU, February 9, 2010.	2010
128. <u>Jiang B</u> . <i>Oral presentation</i> . Department of Orthopaedics, WVU, Jan. 20, 2010.	2010
129. <u>Hamza T</u> . <i>Oral presentation</i> . Department of Orthopaedics, WVU, January 20, 2010.	2010
130. <u>Li B</u> . <i>Oral presentation</i> . Department of Orthopaedics, WVU, January 20, 2010.	2010
131. <u>Li B</u> . <i>Oral presentation</i> . Orthopaedic Reunion Day, WVU, October 16, 2009.	2009
132. <u>Li B</u> . <i>Oral presentation</i> . Resident Research Day, Department of Orthopaedics, WVU, May 29, 2009.	2009
133. <u>Li B</u> . <i>Oral presentation</i> . Reunion Day, Department of Orthopaedics, WVU, October 3-4, 2008.	2008
134. <u>Li B</u> . <i>Oral presentation</i> . Research Day, Department of Orthopaedics, WVU, May 30, 2008.	2008
135. <u>Boyce B</u> , Lindsey B, Clovis N, Smith S, Salihu S, Li B, Hubbard D. <i>Oral presentation</i> . Research Day, Department of Orthopaedics, WVU, May 30, 2008.	2008