Curriculum Vitae

Brajesh Kr. Dubey, PhD, FIE, C.Eng

Dr. Brajesh Kr. Dubey is presently an Associate Professor – Environmental Engineering and Management, the In-charge of Sustainable Engineering and Circular Economy Research Laboratory in the Department of Civil Engineering at the Indian Institute of Technology – Kharagpur (IIT-KGP), India. Dr. Dubey received Ph.D. in Environmental Engineering Sciences from the University of Florida, Gainesville, USA. He received Outstanding International Student Award from the University of Florida during his PhD program. He has received BTech (Hons) in Civil Engineering from IIT-Kharagpur, India.

Dr. Dubey has over 16 years (post PhD) of research, teaching, and consulting experience within the broad fields of environmental, sustainable/resilient engineering and circular economy approaches, *addressing the nexus among sustainability, resiliency, infrastructure, waste, energy, and the environment*. His research expertise includes: (1) Life Cycle Assessment (LCA) and techno-economic assessment of emerging/next-generation technologies for solving sustainability challenges related to energy systems, built infrastructure and processing and manufacturing; (2) Decarbonization of the urban infrastructure, especially for integrated waste management systems; (3) Characterization and engineering applications of waste/recycled materials including beneficial reuse risk assessment; and (4) Resource Recovery from solid and liquid waste streams. His research has been funded by several national, international agencies such as United Nations Industrial Development Organization (UNIDO); National Geographic Society (NGS); International Transport Forum (ITF) - Organisation for Economic Cooperation and Development (OECD), Paris; Alliance to End Plastic Waste and Circular Initiative, Singapore; Canadian Foundation for Innovation (CFI); Natural Sciences and Engineering Research Council of Canada (NSERC); Department of Science and Technology (DST), India; Tennessee Department of Environment and Conservation; Florida Department of Environmental Protection; Auckland Regional Council, New Zealand among others. Prior to PhD, he has 4 years of industry experience as a Civil/Environmental Engineer in the area of petrochemical, refineries and offshore oil platforms.

Dr. Dubey is author of 115 journal papers, 4 edited books/conference proceedings, 25 book chapters, and 27 full conference papers (with h-index of 39. I10-index of 81 with over 4,700 citations as per Google Scholar, Scopus h-index of 32).. Dr. Dubey has given more than 50 invited presentations in various countries in the world including Canada, USA, China, Germany, India, South Korea, Thailand, and U.K.). Dr. Dubey has served or currently serves as an Associate Editor or Editorial Board Members of 5 different journals, including ASCE Journal of Hazardous, Toxic and Radioactive Waste, International Solid Waste Association (ISWA) Journal of Waste Management & Research -The journal for a Sustainable Circular Economy, Journal of Air and Waste Management Association, and Frontier Journal of Environmental Engineering and Science and Expert Opinion on Environmental Biology. He has also served on various professional committees, including the State Level Advisory Committee for Solid Waste Management, Ministry of Urban Development and Urban Affairs, Government of West Bengal, Kolkata, India. Co-Chair of Member, Organic Waste Facility Public Liaison Committee, City of Guelph, Ontario, Canada. He has served as ISWA Working Group member for the Groups on “Waste Minimization and Recycling”, and on “Climate Change and Waste Management”. He has also served as a Member of Working Group on “Risk Assessment” of Interstate Technology and Regulatory Council (ITRC), Washington, DC USA.

Curriculum Vitae

Brajesh Kr. Dubey, PhD, FIE, C.Eng

Present Affiliations

Associate Professor - Environmental Engineering, Department of Civil Engineering, Indian Institute of Technology – Kharagpur, Kharagpur, West Bengal, India – 721302, E-mail: bkdubey@civil.iitkgp.ac.in, bkdubey@gmail.com, Phone : +91-3222-282874, +91-9434205884(mobile)

Education

Year	Degree
2005	PhD (Environmental Engineering Sciences), University of Florida, Gainesville, FL, USA
1997	Bachelor of Technology (Hons), Civil Engineering, Indian Institute of Technology (IIT) Kharagpur, WB, India

Experience (Academic)

2015-onwards	Associate Professor (Environmental Engineering) Department of Civil Engineering, Indian Institute of Technology – Kharagpur (IIT-KGP), West Bengal, 721302
2018 (May to Sept)	Visiting Associate Professor (Endeavour Fellow), Deakin University – Waurn Ponds Campus, Geelong, Australia (May to Sep 2018)
2011-15	Assistant Professor& Graduate Faculty, Environmental Engineering Program, School of Engineering, University of Guelph, 50 Stone Road East, Guelph, ON, N1G 2W1, Canada
2014-15	Adjunct International Faculty, Amrita Center for Sustainable Development, Amrita Nagar, Coimbatore, Tamil Nadu, India
2009-11	Assistant Professor& Graduate Faculty, Department of Environmental Health, 65 Lamb Hall, East Tennessee State University, PO Box 70682, Johnson City, TN, 37614, USA
2008-09	Senior Lecturer, Department of Civil and Environmental Engineering, The University of Auckland, Auckland, New Zealand, 1142.
2006-08	Post Doctoral Fellow, Department of Environmental Engineering Sciences, University of Florida, Gainesville, FL, 32611

Experience (Industry)

2006 (part time)	Project Environmental Engineer, Innovative Waste Consulting Services LLC. Gainesville, FL
1997-01	Environmental Engineer, Engineers India Limited, New Delhi, India.

Honors and Awards

2018 Endeavor Executive Fellowship from Department of Education and Training, Australian Government

2008 Certificate of Academic Excellence from Hinkley Center for Solid and Hazardous Waste Management, Gainesville, Florida, USA

2005 Outstanding International Student Award from College of Engineering, University of Florida, Gainesville, FL, USA

2004 Ron Cockcroft Award (RCA) from International Research Group on Wood Protection (IRG-WP), 2004; Stockholm, Sweden

Curriculum Vitae

Brajesh Kr. Dubey, PhD, FIE, C.Eng

Expertise and Interests

- Life Cycle Assessment (LCA) and techno-economic assessment of emerging/next-generation technologies for solving sustainability challenges related to energy systems, built infrastructure and processing and manufacturing
- Decarbonization of the urban infrastructure, especially for integrated waste management systems
- Characterization and engineering applications of waste/recycled materials including beneficial reuse risk assessment
- Resource Recovery from solid and liquid waste streams, Integrated waste management issues
- Plastic Pollution – Estimation, Fate and Transport and Mitigation

Training Programs/Courses Attended and Completed:

- Participated, Contributed in Global Leadership Program on Circular Economy – Preparing Leaders for the Transformation to a Circular Economy, 17th -23rd June, 2018, Adelaide, Australia organized by Green Industries SA in partnership with Ekonnect Knowledge Foundation and Environmental Management Centre LLP and Circular Economy Alliance Australia.
- Completed the MOOC Course on Circular Economy – An Introduction, 2018; offered by TU Delft and co-created with the Ellen MacArthur Foundation and the Leiden-Delft-Erasmus Centre for Sustainability.
- Completed and Acquired Certificate of Accreditation as Standard Mental Health First Aider after successful completion of the course and assessment organized by Mental Health First Aid, Australia, July 11-12, 2018.
- Training Workshop (2 Days) on "Life Cycle of Products, Processes & Services (LCA Training with Hands on practice using SimaPro for LCA Project Managers, Engineers and Designers)", Nov 28th&29th 2012, Organized jointly by Interuniversity Research Center for the Life Cycle of Products, Processes and Services (CIRAIG) and The Sustainability Learning Centre, Toronto, Canada
- Training Workshop on "Adding Sustainability to Engineering Education", Center for Sustainable Engineering, Syracuse University; June 4-5, 2012.
- Participated at the National Science Foundation (NSF) CAREER Workshop, Association of Environmental Engineering and Science Professors (AEESP) 2011 Research and Education Conference, University of South Florida, Tampa, Florida, July 10th 2011.
- Completed 2 Semester (2010-11) Course at East Tennessee State University titled "Faculty Grant Leadership Course". The faculty members who took the course were given assistance in the following specific activities: Refine and/or develop their research/academic program, Identification of funding sources, Targeting and "packaging" a proposal to funding agencies, Identifying and contacting the appropriate agency or sponsor staff for additional guidance and in developing a well "packaged" proposal.
- Attended and Participated at the National Science Foundation Workshop "NSF Day at Middle Tennessee State University", December 18, 2009 Murfreesboro, Tennessee.
- Completed 2 Semester (2009-10) Course at East Tennessee State University titled "Faculty Technology Leadership". This course supports faculty who are interested in integrating technology with education. Course content includes the use of course management system applications, multimedia applications, and applications required for efficient and effective delivery of electronic course materials. Production and incorporation of a multimedia learning unit into a course is the capstone project for this course. This course also prepares faculty to

develop and teach online courses.

- Bioreactor Landfill Workshop, Two-day Workshop on Design and Operational Issues of Bioreactor Landfill by Hinkley Center for Solid and Hazardous Waste Management, Orlando, Florida, May 2006.
- MINTEQA2 Two-day Workshop on Geochemical and Hydrological Modeling and Training, Organized by Allison Geosciences Consultants, Inc. at Atlanta, USA. May 2004.

Professional Associations

AEESP	Association of Environmental Engineering and Science Professors
ASCE	American Society of Civil Engineering
ISWA	International Solid Waste Association
ISSP	International Society of Sustainability Professionals
NSWAI	National Solid Waste Association of India (Life Member)

Professional and Community Activities (list of selected activities)

- 2020: Invited Lecture on "Circular Economy approaches in Waste Management" at National Institute of Technology – Durgapur, Jan 22nd 2020.
- 2018: Invited Lecture on "Technology and Essence of Municipal Solid Waste Management" at National Institute of Forge and Foundry Technology (NIFFT), Ranchi, Sep 27th 2018.
- 2018-19: Popular Lecture (five events) on Swachhata hi Seva (Importance of Cleanliness) as part of Clean India Mission organized by Ministry of Information and Technology, Govt. of India, West Medinipur region, West Bengal India
- 2018: Thematic Speaker for Smart Resource Management Session as part of the Smart Cities Workshop – Sustainable Urban Development Organized by Heidelberg University, Germany; Observers Research Foundation, New Delhi; School of Planning and Architecture, New Delhi; in collaboration with Mizoram University, and Gottingen University, Aizawl, Mizoram, April 27, 2018.
- 2017: Thematic Speaker and Moderator for Smart Resources Management Session during India-EU Dialogue Smart Cities: Sustainable Urbanization, organized by Heidelberg University, Delegation of the EU to India, ORF, BayIND in Collaboration with SPA, CNRS, GIZ and Indo-German Chamber of Commerce, Presentation title: How to achieve Smart Resource Management for Sustainable Urbanization, Oct 13-14, 2017, Bangalore, India
- 2017: Presented on topic Integrated Waste Management for a Smart City, under the session Smart Resource Management during Smart Cities Workshop Sustainable Urban Development Organized by Heidelberg University, ORF, SPA and BayIND in Collaboration with Xavier University Bhubaneswar and Indo-German Chamber of Commerce, Sep 21-22, 2017.
- 2017 onward: Subject Expert Member of State Level Advisory Committee for Solid Waste Management, Ministry of Urban Development and Urban Affairs, Government of West Bengal, Kolkata, India.
- 2017: Chaired/Moderated a Session on "Fate and Presence of Environmental Contaminants in Communities" at the AEESP 2017 Conference, June 20-22, 2017, University of Michigan, Ann Arbor, Michigan
- 2016 onward: Member of the Team for Appraisal of Solid Waste Management (SWM) DPRs under Swacch Bharat Mission (Clean India Mission) for Urban Towns in Bihar, India.
- 2016 onward: Member, IIT Consortium responsible for Technical Project Appraisals of Projects Proposed under Namami Gange Program of National Mission of Clean Ganga (NMCG),

Ministry of Water Resources and Ganga Rejuvenation, New Delhi, India. The panel meets once a month on average to review outstanding submitted project proposals for approval.

- 2016-2019: Associate Editor, Journal of the Air and Waste Management Association (JA&WMA), a Taylor and Francis Journal.
- 2016: Organizing Team Core Member: 6th International Conference on Solid Waste Management, Nov 24 to 26th, 2016 at Jadavpur University, Kolkata; organized in collaboration with The Energy and Research Institute (TERI), Indian Institute of Science – Center for Sustainable Technology and Indian Institute of Technology Kharagpur.
- 2016: Chaired the Session on "Mainstreaming Life Cycle Thinking in Decision Making Process" at the Indian Conference on Life Cycle Management (ILCM), Oct 17th -18th , New Delhi, India
- 2016: Co-Chair, National Conference on Electronic Waste Management, Jan 13-14, 2016, XLRI, Jamshedpur, India, Organized in collaboration with The University of Queensland, Australia and Xavier School of Management, Jamshedpur, India
- 2016: Program Officer for National Service Scheme (NSS) Unit #1 at Indian Institute of Technology-Kharagpur, Our unit worked with three elementary schools helping the teachers in innovative teaching methods in the science and math education. We also work in a village on water and sanitation issues.
- 2016: Book Proposal Review for the Book "Advances in Phytoremediation of Environmental Pollutants"/CRC Press/Taylor and Francis Group.
- 2015 onward: Editor-in-Chief for the Journal "Expert Opinion on Environmental Biology" http://www.scitechnol.com/expert-opinion-on-environmental-biology.php
- 2015 onward: Advisory Board Member, Clean Up and Recycle for Environment (CURE), NGO working in the area of Electronics Waste Management, Jaipur, Rajasthan.
- 2014-15: Member, Organic Waste Facility Public Liaison Committee, City of Guelph, Ontario, Canada.
- 2014 onward: Member "Council of Reference" Wasteaid a NGO connecting vulnerable communities to waste management resources and expertise
- 2014 Member, Scientific Committee, Global Development Symposium, University of Guelph, Guelph, Ontario May 4 – May 7, 2014
- 2014: Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC) Collaborative Research and Development (CRD) Grant Program
- 2013 onward: Serving on AEESP's Student Services Committee
- 2013 onward: Serving as Writer and Reviewer for Training Resources Pack for Hazardous Waste Management being developed by International Solid Waste Association (ISWA) in association with United Nations Environmental Program (UNEP) and United Nations Industrial Development Organization (UNIDO)
- 2013-14: Co-Chair, City of Guelph Solid Waste Management Master Plan Review Public Steering Committee
- 2013 onward: Member, Expert Panel for International Institute of Waste Management, Bhopal, India
- 2013: Member, Working Group "Waste Minimization and Recycling", International Solid Waste Association
- 2013: Member, Working Group "Climate Change and Waste Management", International Solid Waste Association

Curriculum Vitae

Brajesh Kr. Dubey, PhD, FIE, C.Eng

- 2013: Member Working Group on "Risk Assessment" of Interstate Technology and Regulatory Council (ITRC), 50 F Street, NW, Suite 350, Washington, DC 20001
- 2012-13: Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC) College and Community Innovation Grant Program
- 2012-13: Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC) Collaborative Research and Development (CRD) Grant Program
- 2012-13: Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Program
- 2011-12Served as International Expert: Municipal Solid Waste Management and Institutional Strengthening for Environmental Sustainability, **United Nations Industrial Development Organization** (UNIDO) Country Project Nigeria, Programme for Implementation of Green Industry for POPs Pollution Prevention and Reduction
- 2012 Organizer and Moderator of Environmental Nanotechnology Session during the 28th Annual International Conference on Soils, Sediment, Water and Energy, Oct 15th to 18th, 2012, University of Massachusetts, Amherst, MA
- 2012 – Present, Member-Editorial Board of the "Journal of Experts Opinion on Environmental Biology" SciTechnol – An OMICS Group Initiative, Henderson, NV, USA
- 2012-Present, Member-Editorial Board of the "Journal of Waste Management" Hindawi Publishing Corporation, New York, USA
- 2011 Organizer and Moderator of Environmental Nanotechnology Session during the 27th Annual International Conference on Soils, Sediment, Water and Energy, Oct 17th to 20th, 2011, University of Massachusetts, Amherst, MA
- 2011 Solid Waste Management Book Proposal Review for Elsevier Limited, Oxford, UK
- 2011-Present,Member-Editorial Board of the "The Scientific World Journal of Environmental Chemistry", Hindawi Publishing Corporation, New York, USA
- 2011- Present, Member, Scientific Advisory Board, The Association for Environmental Health and Sciences Foundation, Amherst, MA
- 2011 EPA Proposal Review for RFA, EPA-ORD-NRMRL-C1-11-07
- 2010 – Present, Consultant/Advisor to Zeal Environmental Technologies Limited, Takoradi, Ghana; a consulting firm who deals with management of oil drilling generated waste and West African Gas Pipeline Condensate.
- 2010, American Society of Public Health (ASPH) **Working Group Member for the Global Health Core Competency Development Project**, Washington DC
- 2010, NIEHS Proposal Review for RFA-ES-09-003 Hazmat Training at DOE Nuclear Weapons Complex and RFA-ES-09-004 Hazardous Materials Worker Health and Safety Training
- 2010, Reviewer, Diversity Research Grants, Tennessee Board of Regents, Nashville, Tennessee
- 2010 Member, Organizing Committee, 3rd International Congress of Environmental Research, University of Mauritius, Reduit, Mauritius, September 16-18, 2010
- 2009, Reviewer for Graduate Fellowship Applications under U.S. EPA's Science to Achieve Results (STAR) Program
- 2009 & 2007, Peer Reviewer for Proposals received by U.S. EPA's Office of Research and Development (ORD) Phase 1 Small Business Innovation Research (SBIR) Program.
- 2008, Coordinator, International Congress of Environmental Research (ICER-2008), Goa, India,

December 18th –December 20th 2008.

- 2007, **Consultant to "World Bank**" on Assessing Fate of Arsenic during the Management of Diseased Animal Wastes

Training Workshops/Short Term Courses Conducted (selected list)

2017: Design and Delivery of One Day Workshop on Integrated Waste Management at Bilaspur University, Bilaspur, MP, India, July 25th, 2017.
2017: Design and Delivery of Five Day Short Term Course on "Sustainable Engineering: Concepts and Applications" offered at College of Urban Construction and Environmental Engineering, Chongqing University, June 26th to June 30th, Chongqing, China.
2016: Design and Delivery of Three Day Short Term Course on "Introduction to Life Cycle Assessment: From Theory to Practical Applications" offered at Indian Institute of Technology (IIT), Kharagpur, WB, India, Sep 14th to 16th, 2016.
2016: Design and Delivery of Short Term Course on "Waste Management & Resource Recovery" with a focus on Urban Issues at College of Urban Construction and Environmental Engineering, Chongqing University, July 1st to July 9th, Chongqing, China
2016: Design and Delivery of Two Day Training Program on Electronic Waste Management at DVC Towers, Damodar Valley Corporation (a power sector company), Kolkata, Mar 17th and 18th , 2016; Kolkata, India
2015: Design and Delivery of One week Course on "Life Cycle Analysis (LCA) as a Tool for Sustainable Engineering", at College of Urban Construction and Environmental Engineering, Chongqing University, Dec 14th to Dec 18th, Chongqing, China
2015: Design and Delivery of 4-Day Course on "Electronic Waste (E-Waste) Management – Global Issues", at College of Urban Construction and Environmental Engineering, Chongqing University, Dec 21st to Dec 24th, Chongqing, China
2015: Co-Instructor for Training Workshop on "Waste Management" at Northern Coalfields Ltd., Singrauli, MP, India, November 16th, 2015.
2015: Co-Instructor for Capacity Building Programme on Hazardous Waste Management" at NTPC, Singrauli, MP, India, 17th -18th November, 2015.
2015: Co-Instructor and Facilitator for Capacity Building Training Program for Electronic Waste Management, Organized at Hotel Sagar Plaza, Pune, Oct 30th -31st, 2015 by International Institute of Waste Management, Bhopal, India.
2015: Co-Instructor for Short Term Course on "Land Acquisition, Rehabilitation and Environmental Clearance of Projects" Sept 15-19, 2015, Indian Institute of Technology (IIT), Kharagpur, West Bengal, India.
2013: Main Instructor at the Capacity Building Training/Workshop on Electronics Waste Management, Organized by International Institute of Waste Management, Bhopal; April 25-26, 2013, India.

PUBLICATIONS

I have published original research and review articles in several internationally reputed journals in the field of Environmental Engineering and Science and have attended and presented research papers/posters at several national and international conferences. These publications including technical reports are the outcomes from the various projects that I have worked with over last two decade.

Publication Summary:

Published (280): Referred Journal Articles (115), Book Chapters (25), Full Paper in Conference Proceedings (27), Abstracts (79), Magazine Articles (5), Technical Reviewed Project Reports (25), and Other Project Reports (8).

Peer Reviewed Journal Publications:(As on 13th Apr, 2022 Total Citation: 4741; h-index = 39, I-10 index = 81, as per Google Scholar). (# indicates supervised/mentored, PhD, Masters or Undergraduate students)

1. Panigrahi, S., # Kundu, D., # Banerjee, R., and Dubey, B.K., (2022). Enzyme pretreatment of yard waste to improve anaerobic biodegradability: Modeling the interactive effects of enzyme dose, treatment temperature and treatment duration on delignification. ***Fuel***, 317, 123313. https://doi.org/10.1016/j.fuel.2022.123313
2. Das, C., # Shafi, T., # Pan, S., Dubey, B.K., and Chowdhury, S., (2022). Graphene-Based Macromolecular Assemblies as High-Performance Absorbents for Oil and Chemical Spills Response and Cleanup. ***Journal of Environmental Chemical Engineering***, 107586. https://doi.org/10.1016/j.jece.2022.107586
3. Venna, S., Sharma, H.B., Mandal, D., Reddy, H.P., Chowdhury, S., Chandra, A., and Dubey, B.K., (2022). Carbon material produced by hydrothermal carbonisation of food waste as an electrode material for supercapacitor application: A circular economy approach. ***Waste Management and Research***, 0734242X221081667. https://doi.org/10.1177%2F0734242X221081667
4. Sharma, H. B.,# Vanapalli, K. R.,# and Dubey, B. K., (2022). Study on the process wastewater reuse and valorisation during hydrothermal co-carbonization of food and yard waste. ***Science of The Total Environment***, 806(4), 150748. https://doi.org/10.1016/j.scitotenv.2021.150748
5. Sathe, S. M., # Chakraborty, I., # Dubey, B. K., and Ghangrekar, M. M., (2022). Microbial fuel cell coupled Fenton oxidation for the cathodic degradation of emerging contaminants from wastewater: Applications and challenges. ***Environmental Research***, Volume 204, 112135. https://doi.org/10.1016/j.envres.2021.112135
6. Sharma, H. B., # Vanapalli, K. R., # Samal, B., # Cheela, V. S., # Dubey, B. K., and Bhattacharya, J. (2021). Circular economy approach in solid waste management system to achieve UN-SDGs: Solutions for post-COVID recovery. ***Science of The Total Environment***, 149605. https://doi.org/10.1016/j.scitotenv.2021.149605
7. Chakraborty, I., # Das, S., # Dubey, B.K., and Ghangrekar, M.M. (2021). High-Density polyethylene waste-derived carbon as a low-cost cathode catalyst in microbial fuel cell. International Journal for Environmental Research, 15, 1085-1096. https://doi.org/10.1007/s41742-021-00374-6
8. Ananya C, Sudipta B, Vikas S, Joyanti H, Abyaya D, Baranidharan S, # Dubey B.K., Poornachandra S, and Chandra A, (2021) High-performance magnetic pseudocapacitors - Direct correlation between specific capacitance and diffusion coefficients. ***Electrochimica Acta***, Vol. 397, 139252 https://doi.org/10.1016/j.electacta.2021.139252
9. Sharma, H. B., # Panigrahi, S. #, and Dubey, B. K., (2021) Food waste hydrothermal carbonization: Study on the effects of reaction severities, pelletization and framework development using approaches of the circular economy. ***Bioresource Technology*** 333, 125187. https://doi.org/10.1016/j.biortech.2021.125187
10. Sathe, S., M., # Chakraborty, I., # Cheela, V., S., # Chowdhury, S., Dubey, B., K., and Ghangrekar, M., M., (2021). A novel bio-electro-Fenton process for eliminating sodium dodecyl sulphate from wastewater using dual chamber microbial fuel cell. ***Bioresource Technology***, 341, 125850. https://doi.org/10.1016/j.biortech.2021.125850.
11. Singhal, A., # Gupta, A., Ghangrekar, M.M., and Dubey, B.K., (2021). Seasonal characterization of municipal solid waste for selecting feasible waste treatment

technology for Guwahati city, India. ***Journal of the Air & Waste Management Association***. https://doi.org/10.1080/10962247.2021.1980450 .
12. Samal, B., # Raja, K., # Dubey, B.K., Bhattacharya, J., Chandra, S. # and Medha, I. #, (2021). Influence of process parameters on thermal characteristics of char from co-pyrolysis of eucalyptus biomass and polystyrene: Its prospects as a solid fuel. ***Energy,*** p.121050. https://doi.org/10.1016/j.energy.2021.121050
13. Vanapalli, K.R., # Bhattacharya, J., Samal, B., # Chandra, S., # Medha, I. # and Dubey, B.K., (2021). Inhibitory and synergistic effects on thermal behaviour and char characteristics during the co-pyrolysis of biomass and single-use plastics. ***Energy***, 235, p.121369. https://doi.org/10.1016/j.energy.2021.121369
14. Samal, B., # Vanapalli, K.R., # Dubey, B.K., Bhattacharya, J., Chandra, S. # and Medha, I., # (2021). Char from the co-pyrolysis of Eucalyptus wood and low-density polyethylene for use as high-quality fuel: Influence of process parameters. ***Science of the Total Environment***, 794, p.148723. https://doi.org/10.1016/j.scitotenv.2021.148723
15. Cheela, V. R. S., # Ranjan, V. P., # Sudha, G, John, M., and Dubey, B. (2021) Pathways to sustainable waste management in Smart Cities in India". ***Journal of Urban Management***. 10(4): 419-429. https://doi.org/10.1016/j.jum.2021.05.002
16. Cheela, V. R. S., # Sudha, G, John, M., and Dubey, B. (2021) Characterization of municipal solid waste based on seasonal variations, source and socio-economic aspects". ***Waste Disposal and Sustainable Energy***. https://doi.org/10.1007/s42768-021-00084-x
17. Vanapalli,K.R., # Sharma,H.B., # Ranjan,V. P., # Samal,B., # Bhattacharya,J., Dubey,B.K., and Goel.S.(2021). Challenges and strategies for effective plastic waste management during and post COVID-19 pandemic. ***Science of The Total Environment***,750, 141514. https://doi.org/10.1016/j.scitotenv.2020.141514
18. Cheela, V. R. S., # John, M., and Dubey, B. (2021) Quantitative determination of energy potential of refuse derived fuel from the waste recovered from Indian landfill. ***Sustainable Environment Research***. 2021, 31, 24. https://doi.org/10.1186/s42834-021-00097-5
19. Cheela, V.R.S. #; John, M.; Biswas, W.K.; and Dubey, B. (2021) Environmental Impact Evaluation of Current Municipal Solid Waste Treatments in India Using LCA. ***Energies***. 2021, 14, 3133. https://doi.org/10.3390/en14113133
20. Chakraborty, I., # Ghosh, D., Sathe, S.M., # Dubey, B.K., Pradhan, D., and Ghangrekar, M.M. (2021). Investigating the efficacy of CeO_2 multi-layered triangular nanosheets for augmenting cathodic hydrogen peroxide production in microbial fuel cell, ***Electrochimica Acta***, Volume 398, 139341. https://doi.org/10.1016/j.electacta.2021.139341
21. Sharma, H. B., # Vanapalli, K. R., # Barnwal, V. K. #, Dubey, B., and Bhattacharya, J. (2021). Evaluation of heavy metal leaching under simulated disposal conditions and formulation of strategies for handling solar panel waste. ***Science of The Total Environment***, 146645. https://doi.org/10.1016/j.scitotenv.2021.146645
22. Mittapalli, S., # Sharma, H. B., and Dubey, B. K. (2021). Hydrothermal carbonization of anaerobic granular sludge and co-pelletization of hydrochar with yard waste. ***Bioresource Technology Reports***, 100691. https://doi.org/10.1016/j.biteb.2021.100691
23. Bhowmick,G.D., Sarmah,A.K., and Dubey,B.,(2021).Microplastics in the NZ environment: Current status and future directions. ***Case Studies in Chemical and Environmental Engineering***, 3, 100076. https://doi.org/10.1016/j.cscee.2020.100076
24. Vanapalli,K.R., # Dubey,B.K., Sarmah,A.K., and Bhattacharya,J.,(2021).Assessment of microplastic pollution in the aquatic ecosystems–An indian perspective. ***Case Studies in Chemical and Environmental Engineering*** ,3,100071. https://doi.org/10.1016/j.cscee.2020.100071

25. Vanapalli,K.R., # Bhattacharya,J., Samal,B., # Chandra,S., # Medha,I., # and Dubey,B.K.,(2021). Single-use LDPE - Eucalyptus biomass char composite produced from co-pyrolysis has the properties to improve the soil quality. ***Process Safety and Environmental Protection***,149,185-198. https://doi.org/10.1016/j.psep.2020.10.051
26. Venna,S., # Sharma,H.B., # Reddy, P.H.P.,Chowdhury,S., and Dubey,B.K.,. (2021). Landfill leachate as an alternative moisture source for hydrothermal carbonization of municipal solid wastes to solid biofuels. ***Bioresource Technology***, 320,124410. https://doi.org/10.1016/j.biortech.2020.124410
27. Chakraborty,I., # Bhowmick,G.D., # Nath,D., Khuman,C.N., Dubey,B.K., and Ghangrekar,M.M., (2021). Removal of sodium dodecyl sulphate from wastewater and its effect on anodic biofilm and performance of microbial fuel cell. ***International Biodeterioration & Biodegradation***, 156,105108. https://doi.org/10.1016/j.ibiod.2020.105108
28. Praneeth,S., # Saavedra, .,Zeng, M., Dubey, B.K., and Sarmah,A.K.,(2021). Biochar admixtured lightweight, porous and tougher cement mortars: Mechanical, durability and micro computed tomography analysis. ***Science of The Total Environment***,750,*142327*. https://doi.org/10.1016/j.scitotenv.2020.142327
29. Mondal, A., # Dubey,B., Arora,M., and Mumford,K.,.(2021). Porous media transport of iron nanoparticles for site remediation application: A review of lab scale column study, transport modelling and field-scale application. ***Journal of Hazardous Materials***,403,123443. https://doi.org/10.1016/j.jhazmat.2020.123443
30. Vanapalli,K.R., # Bhattacharya,J., Samal,B., # Chandra,S., # Medha,I., # and Dubey.B.K.,(2021).Optimized production of single-use plastic-Eucalyptus wood char composite for application in soil. ***Journal of Cleaner Production***, 278,123968. https://doi.org/10.1016/j.jclepro.2020.123968
31. Chakraborty, I., # Ghosh, N., Ghosh, D., Dubey, B.K., Pradhan, D., and Ghangrekar, M.M. (2020) Application of synthesized porous graphitic carbon nitride and it's composite as excellent electrocatalysts in microbial fuel cell. ***International Journal of Hydrogen Energy***, 45(55), 31056-31069. https://doi.org/10.1016/j.ijhydene.2020.08.118
32. Sharma, H. B., #Vanapalli, K. R., # Cheela, V. S., # Ranjan, V. P., # Jaglan, A. K. #, Dubey, B., Goel, S., and Bhattacharya, J. (2020). Challenges, opportunities, and innovations for effective solid waste management during and post COVID-19 pandemic. ***Resources, Conservation and Recycling***, *105052*. https://doi.org/10.1016/j.resconrec.2020.105052
33. Chakraborty, I., # Bhowmik, G.D., Ghosh, D., Dubey, B.K., Pradhan, D., and Ghangrekar, M.M. (2020) Novel low-cost activated algal biochar as a cathode catalyst for improving performance of microbial fuel cell. ***Sustainable Energy Technologies and Assessments***, 42, 100808. https://doi.org/10.1016/j.seta.2020.100808
34. Sathe, S.M., # Bhowmick, G.D., Dubey, B.K. and M. M. Ghangrekar (2020). Surfactant removal from wastewater using photo-cathode microbial fuel cell and laterite-based hybrid treatment system. ***Bioprocess and Biosystems Engineering***, Volume 43, Issue 11. https://doi.org/10.1007/s00449-020-02396-4
35. Sharma, H. B., # Panigrahi, S., # Sarmah, A. K., and Dubey, B. K. (2020). Downstream augmentation of hydrothermal carbonization with anaerobic digestion for integrated biogas and hydrochar production from the organic fraction of municipal solid waste: A circular economy concept. ***Science of the Total Environment***, *706*, 135907. https://doi.org/10.1016/j.rser.2020.109761
36. Chakraborty, I., # Sathe, S.M., # Dubey, B.K., and Ghangrekar, M.M. (2020). Waste-derived biochar: Applications and future perspective in microbial fuel cells, ***Bioresource Technology***, Volume 312, 123587. https://doi.org/10.1016/j.biortech.2020.123587

37. Chopra, J., [#] Tiwari, B.R., Dubey, B.K., and Sen, R.K. (2020). Environmental impact analysis of oleaginous yeast based biodiesel and bio-crude production by life cycle assessment. ***Journal of Cleaner Production***, 271, 122349. https://doi.org/10.1016/j.jclepro.2020.122349
38. Sharma, H. B., [#] Sarmah, A. K., and Dubey, B. (2020). Hydrothermal carbonization of renewable waste biomass for solid biofuel production: A discussion on process mechanism, the influence of process parameters, environmental performance and fuel properties of hydrochar. ***Renewable and Sustainable Energy Reviews***, 123, 109761. https://doi.org/10.1016/j.rser.2020.109761
39. Mandal, P., [#] Yadav, M. K., Gupta A. K., and Dubey, B. K. (2020). Chlorine mediated indirect electro-oxidation of ammonia using non-active PbO_2 anode: influencing parameters and mechanism identification. ***Separation and Purification Technology***, 247, 116910. https://doi.org/10.1016/j.seppur.2020.116910
40. Yadav, G., [#] Dubey, B.K., and Sen, R.K. (2020). A comparative life cycle assessment of microalgae production by CO_2 sequestration from flue gas in outdoor raceway ponds under batch and semi continuous regime. ***Journal of Cleaner Production***, 258, 104317. https://doi.org/10.1016/j.jclepro.2020.120703
41. Mandal, P., [#] Gupta A. K., and Dubey, B. K. (2020). Role of inorganic anions on the performance of landfill leachate treatment by electrochemical oxidation using graphite/PbO_2 electrode. ***Journal of Water Process Engineering***, 33, 101119. https://doi.org/10.1016/j.jwpe.2019.101119
42. Mandal, P., [#] Gupta A. K., and Dubey, B. K., (2020). Synthesis of graphite/PbO_2 anode: electrodeposition process modeling for improved landfill leachate treatment using RSM and ANN approach. ***International Journal of Environmental Science and Technology***, 17, 1947-1962. https://doi.org/10.1007/s13762-019-02460-x
43. Praneeth, S., [#] Guo, R., Wang, T., Dubey, B. K., and Sarmah, A. K. (2020). Accelerated carbonation of biochar reinforced cement-fly ash composites: Enhancing and sequestering CO2 in building materials. ***Construction and Building Materials***, *244*, 118363. https://doi.org/10.1016/j.conbuildmat.2020.118363
44. Sharma, H. B[#] and Dubey, B. (2020). Binderless fuel pellets from hydrothermal carbonization of municipal yard waste: Effect of severity factor on the mechanical, storage and combustion properties. ***Journal of Cleaner Production***, 277, 124295. https://doi.org/10.1016/j.jclepro.2020.124295
45. Sharma, H. B. [#] and Dubey, B. (2020). Co-Hydrothermal Carbonization of Food Waste with Yard Waste for Solid Biofuel Production: Hydrochar Characterization and its Pelletization**.** ***Waste Management***, 118, 521-533. https://doi.org/10.1016/j.wasman.2020.09.009
46. Panigrahi, S., [#] Sharma, H. B. [#], and Dubey, B. K. (2020). Anaerobic co-digestion of food waste with pretreated yard waste: A comparative study of methane production, kinetic modeling and energy balance. ***Journal of Cleaner Production***, 118480. https://doi.org/10.1016/j.jclepro.2019.118480
47. Mandal, P.[#], Gupta A. K., and Dubey, B. K. (2020). A review on presence, survival, disinfection/removal methods of coronavirus in wastewater and progress of wastewater-based epidemiology. ***Journal of Environmental Chemical Engineering***, 8(5), 104317. https://doi.org/10.1016/j.jece.2020.104317
48. Vikas S, Sudipta B, Baranidharan S., [#] Prasenjit H., Dubey B.K. and Chandra A (2019) Electrode materials with highest surface area and specific capacitance cannot be the only deciding factor for applicability in energy storage devices – Inference of combined life cycle assessment and electrochemical studies, ***ACS Sustainable Chemistry and Engineering***, 7(5), 5385–5392.https://doi.org/10.1021/acssuschemeng.8b06413

49. Sharma, H., [#] Panigrahi, S., [#] and Dubey, B., (2019). Hydrothermal carbonization of yard waste for solid bio-fuel production: Study on combustion kinetic, energy properties, grindability and flowability of hydrochar. ***Waste Management***,108-119. https://doi.org/10.1016/j.wasman.2019.04.056
50. Panigrahi, S., [#] Sharma, H., [#] and Dubey, B. K. (2019). Overcoming yard waste recalcitrance through four different liquid hot water pretreatment techniques–Structural evolution, biogas production and energy balance. ***Biomass and Bioenergy***, 127, 105268. https://doi.org/10.1016/j.biombioe.2019.105268
51. Panigrahi, S., [#] and Dubey, B. K. (2019). A critical review on operating parameters and strategies to improve the biogas yield from anaerobic digestion of organic fraction of municipal solid waste. ***Renewable Energy***, 143, 779-797. https://doi.org/10.1016/j.renene.2019.05.040
52. Panigrahi, S., [#] and Dubey, B. K. (2019). Electrochemical pretreatment of yard waste to improve biogas production: understanding the mechanism of delignification, and energy balance. ***Bioresource Technology***, 121958. https://doi.org/10.1016/j.biortech.2019.121958
53. Saqib, N.U., Sharma, H.B., [#] Baroutian, S., Dubey, B.K., and Sarmah, A.K. (2019). Valorisation of food waste via hydrothermal carbonisation and techno-economic feasibility assessment. ***Science of the Total Environment***, 690, 261-276. https://doi.org/10.1016/j.scitotenv.2019.06.484
54. Mahath, C.S., [#] Mophin, K., and Dubey, B. (2019). Gate-to-gate environmental impacts of dairy processing products in Thiruvanthapuram, India. ***Resource, Conservation and Recycling***, 141, 40-53. https://doi.org/10.1016/j.resconrec.2018.09.023
55. Mandal, P., [#] Gupta A. K., and Dubey, B. K. (2018). A novel approach towards multivariate optimization of graphite/PbO_2 anode synthesis conditions: Insight into its enhanced oxidation ability and physicochemical characteristics. ***Journal of Environmental Chemical Engineering***, 6 (4), 4438-4451. https://doi.org/10.1016/j.jece.2018.06.048
56. Wang, Y[#]., Pleasant, S., Dubey, B., Rhue, D., Bonzongo, J-C., and Townsend, T., (2018). Assessing the Propensity of Landfill Soils to Undergo Reductive Iron Dissolution, ***Environmental Earth Sciences***, 77, 306. https ://doi.org/10.1007/s1266 5-018-7492-5
57. Paul, S.[#], Dutta, A., Defersha, F., and Dubey, B., (2018). Municipal Food Waste to Biomethane and Biofertilizer: A Circular Economy Concept., ***Waste and Biomass Valorization***.,9(4), 601-611. https://doi.org/10.1007/s12649-017-0014-y
58. Jahanfar, M.[#], Dubey, B., Gharabaghi, B., and McBean, E., (2017). Municipal Solid Waste Slope Stability Parameters: A Probabilistic Approach, ***ASCE Journal of Geotechnical Geoenvironmental Engineering*** 143 (8) ,04017035. https://doi.org/10.1061/(ASCE)GT.1943-5606.0001704
59. Jahanfar, M.[#], Amirmojahedi, M.[#], Dubey, B., Gharabaghi, B., and Kumar, D., (2017). A Novel Risk Assessment Method for Major Landfill Failure: Case Study Application for Bhalswa Landfill, Delhi, India, ***Waste Management and Research*** 35(3), 220-227. https://doi.org/10.1177%2F0734242X16686412
60. Mandal, P[#]., Dubey, B., and Gupta, A.K., (2017). Review on Landfill Leachate Treatment by Electrochemical Oxidation: Drawbacks, Challenges and Future Scope, ***Waste Management,*** 69, 250-273. https://doi.org/10.1016/j.wasman.2017.08.034
61. Osei-Fosu, P., Donkor, A., Ziwu, C., Dubey, B., Kingsford-Adaboh, R., Asante, I., Nyarko, S., Tawiah, R., and Nazzah, N. (2017). Surveillance of Pesticide residues in Fruits and Vegetables from Accra Metropolis Markets, Ghana, 2010–2012: A Case Study in Sub-Saharan Africa. ***Environmental Science and Pollution Research,*** 1-19. https://doi.org/10.1007/s11356-017-9287-8

62. Pokhrel L. R[#], Ettore N, Jacobs Z. L, Zarr A, Weir M. H, Strongin D. R, Scheuerman P. R, Kanel S. R, Dubey B., (2017). Novel Carbon Nanotube (CNT)-based Ultrasensitive Sensors for Trace Mercury(II) Detection in Water : A Review. ***Science of the Total Environment***, 574,1379-1388. https://doi.org/10.1016/j.scitotenv.2016.08.055
63. Zhang, J.[#], Kim, H., Dubey, B., and Townsend, T., (2017). Arsenic Leaching and Speciation in C&D Debris Landfills and the Relationship with Gypsum Drywall Content, ***Waste Management*** 59, 324-329. https://doi.org/10.1016/j.wasman.2016.10.023
64. Donkor, A., Addae Fordjour, L., Tawiah, R., Asomaning, W., Dubey, B., Osei-Fosu, P., Ziwu, C., and Mohammed, M. (2017). Evaluation of Trace Metals in Vegetables Sampled from Farm and Market Sites in Accra Metropolis, Ghana, ***International Journal of Environmental Studies*** 74(2), 315-324. https://doi.org/10.1080/00207233.2016.1261599
65. Nuralam, H.M., Xiao-lan, Z., Dubey, B., Wen-Chuan, D., (2017). Healthcare Waste Management Practices in Bangladesh: A Case Study in Dhaka City, Bangladesh . **International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering** 11(6), 534-539. https://doi.org/10.5281/zenodo.1131077
66. Jahanfar, M.[#], Dubey, B., Gharabaghi, B., and Movahed, S., (2016). Landfill Failure Mobility Analysis – A Probabilistic Approach, ***World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering,*** 10(5), 476-484.
67. Donkor, A., Osei-Fosu, P., Dubey, B., Kingsford-Adaboh, R., Ziwu, C., and Asante, I. (2016) Pesticide Residues in Fruits and Vegetables in Ghana: A Review. ***Environmental Science and Pollution Research,*** 23 (19), 18966-18987. https://doi.org/10.1007/s11356-016-7317-6
68. Bindra, N.[#], Dubey, B., and Dutta, A., (2015). Technological and Life Cycle Assessment of Organics Processing Odour Control Technologies. ***Science of the Total Environment,*** 527-528, 401-412. https://doi.org/10.1016/j.scitotenv.2015.05.023
69. Joseph, T.[#], Jahanfar, M.[#], Kelly, B.[#] and Dubey, B., (2015). A Comparative Life Cycle Assessment of Conventional Hand Dryer and Roll Paper Towel as Hand Drying Methods. ***Science of the Total Environment*** 515–516, pages 109–117
70. Kelly, B.[#], Dubey, B ., Harvey, R., and McBean, E., (2015). A Risk Based Approach to Sanitary Sewer Pipe Asset Management. ***Science of the Total Environment*** 505, Pages 1011-1017.
71. Misra, A.[#], Dubey, B., Wu, C., Townsend, T., and Solo-Gabriele, H., (2015) Leaching Retention of CCA Metals from High-Temperature Reaction with Alkaline Earth and Iron Based Sorbents", ***American Scientific Research Journal for Engineering, Technology, and Sciences***, vol. 14(3), pp. 142-160.
72. Joseph, T.[#] , Dubey, B. and McBean, E., (2015).Human Health Risk Assessment from Arsenic Exposures in Bangladesh. ***Science of the Total Environment*** 527-528, Pages 552-560.
73. Joseph, T.[#] , Dubey, B. and McBean, E., (2015). A Critical Review of Arsenic Exposures for Bangladeshi Adults. ***Science of the Total Environment*** 527-528, Pages 540-551.
74. Misra, A.[#], Dubey, B., Wu, C., Townsend, T., and Solo-Gabriele, H., (2015) Impact on Leaching & Retention of Metals from High Temperature Reaction of CCA Metals with Alumino-Silicate Sorbents", ***American Scientific Research Journal for Engineering, Technology, and Sciences***, vol. 14(3), pp. 161-176.
75. Donkor, A., Osei-Fosui, P., Nyarko, S., Kingsford-Adabohi, R., Dubey, B., and Asante, I., (2015). Validation of QuEChERS Method for the Determination of 36 Pesticide Residues in Fruits and Vegetables from Ghana, using Gas Chromatography with Electron Capture and Pulsed Flame Photometric Detector. ***Journal of Environmental Science and***

Health, Part B (Pesticides, Food Contaminants, and Agricultural Wastes 50, Pages 1-11.

76. Misra, A.[#], Dubey, B., Wu, C., Townsend, T., and Solo-Gabriele, H., (2015) Minimization of Metals Leaching from CCA Wood Incineration through High Temperature Reaction with Mineral Sorbents", ***International Journal of Sciences: Basic and Applied Research***, 24(7), pp. 197-209, 2015.
77. Donkor, A., Kofi Bempah, C., Dubey, B., and Attandoh, N., (2015) Chlorinated Pesticide Residues in Selected Fruits from Some Ghanaian Markets and the Possible Impact on Children's Health, ***Research Journal of Chemical and Environmental Sciences*** 3 [1] February 2015: 01-09
78. Donkor, A., Kumi-Amoah, G., Nartey, V., Dubey, B., and Attandoh, N., (2015). Seasonal trends in Groundwater Arsenic levels in Obuasi Municipality and its vicinity, Ghana. **Research Journal of Chemical and Environmental Sciences** 3 [1] February 2015. 29-39.
79. Zhang, J.[#], Dubey, B., and Townsend, T., (2014). The Effect of Moisture Control and Air Venting on H_2S Production and Leachate Quality in Mature C&D Debris Landfills. ***Environmental Science and Technology*** 48 (20), page 11777–11786.
80. Silva, T.[#], Pokhrel, L.[#], Dubey, B., Tolaymat, T. and Maier, K., (2014). Particle Size, Surface Charge, and Concentration Dependent Ecotoxicity of Three Organo-Coated Silver Nanoparticles: Comparison between Model-Predicted and Observed Toxicity. ***Science of the Total Environment,*** 468–469, Pages 968-976.
81. Pokhrel, L.[#], Dubey, B., and Scheuerman, P, (2014) Natural Water Chemistry (Dissolved Organic Carbon, pH, and Hardness) Modulates Colloidal Stability, Dissolution, and Antimicrobial Activity of Silver Nanoparticles. ***Royal Society of Chemistry journal, Environmental Science: Nano***1 (1), Pages 45-54
82. Pokhrel, L.[#], Dubey, B., and Scheuerman, P, (2013) Impacts of Select Organic Ligands on the Colloidal Stability, Dissolution Dynamics and Toxicity of Silver Nanoparticles. ***Environmental Science and Technology*** 47 (22) 12877-12885.
83. Pokhrel, L.[#], and Dubey, B., (2013). Global Scenario of Metal Mining, Environmental Repercussions, Policies and Sustainability: A Review. ***Critical Reviews in Environmental Science and Technology***, 43 (21), 2352 – 2388.
84. Pokhrel, L.[#], Scheuerman, P., and Dubey, B., (2013). Evaluation of Experimental Design Options in Environmental Nanoscience. ***Expert Opinion on Environmental Biology***, 2:1 http://www.scitechnol.com/2325-9655/2325-9655-2-103.pdf
85. Pokhrel, L.[#], and Dubey, B., (2013). Untangling Species Sensitivity Paradox in Environmental Research. ***Invited Editorial in Expert Opinion on Environmental Biology***, 2:1 http://dx.doi.org/10.4172/2325-9655.1000e105
86. Pokhrel, L.[#], and Dubey, B., (2013). Silver and Zinc Oxide Nanoparticles Cause Developmental Anomalies in the Crop Plants. ***Science of the Total Environment***, 452-453: 321-332**.**The manuscript has been selected and added to the virtual online issue on "Nanomaterials in the Environment" put together by the editors of this journal**.**
87. Pokhrel, L.[#], and Dubey, B., (2012). Potential Impact of Low-Dose Silver Nanoparticles on Predator-Prey Interactions between Predatory Dragonfly Nymphs and Daphnia magna as a Prey. ***Environmental Science and Technology***, 46(14):7755-62.
88. Pokhrel, L.[#], Silva, T.[#], Dubey, B., El Badawy, A., Tolaymat, T. and Scheuerman, P., (2012). Rapid Screening of Aquatic Toxicity of Metal and Metal Oxide Nanoparticles using MetPLATE™ Bioassay. ***Science of Total Environment*** 426, 414-422**.** The manuscript has been selected and added to the virtual online issue on "Nanomaterials in the Environment" put together by the editors of this journal**.**

89. Wang, Y.[#], Sikora, S., Kim, H., Dubey, B., and Townsend, T. (2012). Mobilization of Iron and Arsenic from Soil by Construction and Demolition Debris Landfill Leachate. ***Waste Management*** 32 (5) 925-932.
90. Bempah, C.[#],, Donkor, A., Yeboah, P., Dubey, B., and Osei-Fosu, P., (2011) A Preliminary Assessment of Consumer's Exposure to OrganochlorinePesticides in Fruits and the Potential Health Risk in Accra Metropolis, Ghana. ***Food Chemistry***128 (4) 1058-1065.
91. Dubey, B., Townsend, T., and Solo-Gabriele, H., (2010). Metal Loss from Treated Wood Products in Contact with Municipal Solid Waste Landfill Leachate. ***Journal of Hazardous Material*** 175 558-568.
92. Jang, Y., Jain, P., Tolaymat, T., Dubey, B., Singh, S.[#], Townsend, T. (2010). Characterization of Roadway Stormwater System Residuals for Reuse and Disposal Options. ***Science of Total Environment*** 408 1878-1887.
93. Dubey, B., Spalvins, E., Townsend, T., and Solo-Gabriele, H., (2009). Comparison of CCA- and ACQ-Treated Wood Disposal in Construction and Demolition Debris Landfill. ***ASCE Journal of Environmental Engineering*** 135(10) 910-917.
94. Jang, Y., Jain, P., Tolaymat, T., Dubey, B., Townsend, T. (2009). Characterization of Pollutants in Florida Street Sweepings for Management and Reuse. ***Journal of Environmental Management*** 91(2) 320-327.
95. Spalvins, E., Dubey, B., and Townsend, T., (2008). Impact of Electronic Waste Disposal on Leachate Quality during the Acidic Phase of Simulated Landfills. ***Environmental Science and Technology*** 42(19) 7452-7458.
96. Tolaymat, T., Dubey, B., and Townsend, T., (2008). Assessing Risk Posed by Land Application of Ash from the Combustion of Wood and Tires. ***The Journal of Residual Science and Technology*** 5(2) 61-67.
97. Wadanambi, L.[#], Dubey, B., and Townsend, T., (2008). Leaching of Lead from Lead-Based-Paint under a Variety of Leaching Conditions. ***Journal of Hazardous Materials*** 157(1) 194-200.
98. Townsend, T., Musson, S., and Dubey, B., and Pearson, B.[#], (2008). Leachability of Printed Wire Boards Containing Leaded and Lead-Free Solder. ***Journal of Environmental Management*** 88 926-931.
99. Dubey, B., Townsend, T., Solo-Gabriele, H., and Bitton, G., (2007) Impact of Surface Water Conditions on Preservative Concentrations and Aquatic Toxicity of Treated Wood Leachate. ***Environmental Science and Technology,*** 41(10) 3781-3786.
100. Dubey, B., Solo-Gabriele, H., and Townsend, T., (2007). Quantities of Arsenic Treated Wood in Hurricane Katrina Demolition Debris. ***Environmental Science and Technology,*** 41(5) 1533-1536**.**Based on this study a news story is published in ES&T in the same edition of the journal. Another news story by C&EN (Chemical and Engineering News, ACS) was published online on 2nd Feb, 2007.
101. Dubey, B. and Townsend, T., (2007). Leaching of Milled Asphalt Pavement Amended with Waste to Energy Ash. ***International Journal of Environment and Waste Management,*** 1(2/3) 145-158.
102. Jacobi, G., Solo-Gabriele, H., Townsend, T., Dubey, B., (2007). Evaluation of Technologies for Sorting CCA-Treated Wood. ***Waste Management,*** 27(12) 1617-1625.
103. Dagan, R., Dubey, B., Bitton, G., and Townsend, T., (2007). Aquatic Toxicity of Leachates Produced from Several Electronic Devices. ***Archives of Environmental Contamination and Toxicology,*** 53(2) 168-173.*(2014 Impact factor: 1.90)*
104. Jacobi, G., Solo-Gabriele, H., Dubey, B., Townsend, T., Shiba, T., (2007). Evaluation of Commercial Landscaping Mulch for Possible Contamination from CCA-treated Wood. ***Waste Management,*** 27(12)1765-1773.

105. Townsend, T., Dubey, B., and Tolaymat, T., (2006). Interpretation of SPLP Results for Assessing Risk to Groundwater from Land Applied Granular Waste. ***Environmental Engineering Science***, 23(1) 236-248.
106. Song, J., Dubey, B., Jang, Y., Townsend, T. and Solo-Gabriele, H., (2006). Implication of Chromium Speciation on Disposal of Discarded CCA-Treated Wood. ***Journal of Hazardous Material***, B128, 280-288.
107. Shibata, T., Solo-Gabriele, H., Dubey, B., Townsend T., Jacobi, G., (2006). Arsenic leaching from mulch made from recycled construction and demolition wood and impacts of iron-oxide. ***Environmental Science and Technology,*** 40(16) 5102-5107.
108. Townsend, T., Dubey, B., Tolaymat, T. and Solo-Gabriele, H., (2005). Preservative Leaching from Weathered CCA-Treated Wood. ***Journal of Environmental Management***, 75(2): 105-113.
109. Stook, K., Tolaymat, T., Ward, M., Dubey, B., Townsend, T., Solo-Gabriele, H. and Bitton, G., (2005). Relative Leaching and Aquatic Toxicity of Pressure-Treated Wood Products Using Batch Leaching Tests. ***Environmental Science and Technology***, 39(1) 155-163.
110. Dubey, B. and Townsend, T., 2004. Arsenic and Lead Leaching from the Waste Derived Fertilizer Ironite. ***Environmental Science and Technology***, 38(20) 5400-5404. Based on this study a news story was also published in ES&T in the same edition of the journal.
111. Stook, K., Dubey, B., Ward, M., Townsend, T., Bitton, G. and Solo-Gabriele, H., (2004). Heavy Metal Toxicity of Pressure Treated Wood Leachates with MetPLATE™. ***Bulletin of Environmental Contamination and Toxicology***, 73(6): 987-994.
112. Townsend, T., Tolaymat, T., Solo-Gabriele, H., Dubey, B., Stook, K. and Wadanambi, L., (2004). Leaching of CCA Treated Wood: Implications for Waste Disposal. ***Journal of Hazardous Material***, B114 75-91.
113. Khan, B., Solo-Gabriele, H., Dubey, B., Townsend, T., and Cai, Y., (2004). Arsenic Speciation of Solvent-Extracted Leachate from New and Weathered CCA-Treated Wood**.** ***Environmental Science and Technology***, 38 (17) 4527-4534.
114. Dubey, B. and Bhattacharya, S., (2000). Concrete Filled Steel Tubular Columns under Axial Compression and Reversed Cycling Bending. ***Journal of the Institution of Engineers (India)***, 80:135-150.

<u>Refereed Book Chapters</u>:

1. Sharma, H. B.,[#] Venna, S.,[#] and Dubey, B. K. (2021). Resource recovery and circular economy approach in organic waste management using hydrothermal carbonization. In Clean Energy and Resources Recovery (pp. 313-326). Elsevier, Amsterdam, Netherlands.
2. Samal, B.,[#] Dubey, B. K., and Bhattacharya, J. (2021). Influence of process parameters for production of biochar: A potential tool for an energy transition. Advances in Chemical Pollution, Environmental Management, and Protection, Volume 7, Pages 295-313. Elsevier, Amsterdam, Netherlands. https://doi.org/10.1016/bs.apmp.2021.08.009
3. Vanapalli, K. R.,[#] Samal, B.,[#] Dubey, B. K., & Bhattacharya, J. (2021) Biochar for sustainable agriculture: Prospects and implications" Advances in Chemical Pollution, Environmental Management, and Protection, Volume 7, Pages 221-262. Elsevier, Amsterdam, Netherlands. https://doi.org/10.1016/bs.apmp.2021.08.008.
4. Ghangrekar, M.M, Dubey, B.K., Chakraborty, I.,[#] Appa, R.[#] (2021). Bioelectrochemical Systems for Fuel Production: A Techno-Economic Analysis, Biomass, Biofuels,

Biochemicals Eds. Ashok Pandey, Rajeshwar Dayal Tyagi, Sunita Varjani, Elsevier, Amsterdam, Netherlands.

5. Venna, S.,[#] Sharma, H. B.,[#] Cheela, V. R., and Dubey, B. (2021). Hydrothermal Carbonization of Organic Fraction of Municipal Solid Waste: Advantage, Disadvantage, and Different Application of Hydrochar. In Emerging Treatment Technologies for Waste Management (pp. 197-206). Springer, Singapore.
6. Venna, S.,[#] Sharma, H. B.,[#] and Dubey, B. K., Reddy, H.P (2021). Gate to Gate life cycle assessment of hydrothermal Carbonization process for food waste and yard waste. In Effective Waste Management and Circular Economy: Legislative Framework and Strategies. Springer, Singapore (In-Press)
7. Panigrahi, S.,[#] Sharma, H.,[#] and Dubey, B., (2020). Optimization of F/M ratio during anaerobic co-digestion of food waste with yard waste. In Treatment and Disposal of Solid and Hazardous Waste. Springer Publisher (ISBN 978-3-030-29642-1).
8. Sharma, H.,[#] Panigrahi, S.[#], and Dubey, B., (2020). Review on constructed wetland with focus on its nature, pollutant removal mechanism and current trends and applications. In Treatment and Disposal of Solid and Hazardous Waste. Springer Publisher (ISBN 978-3-030-29642-1)
9. Sharma, H. B.[#], Panigrahi, S.[#], Dubey, B. K., and Narra, S. (2020). Resource Recovery from Organic Fraction of Municipal Solid Waste Using Anaerobic Digestion and Hydrothermal Carbonization. In Bioresource Utilization and Bioprocess (pp. 13-25). Springer, Singapore.
10. Panigrahi, S.[#], Sharma, H. B.[#], and Dubey, B. K. (2020). Integrated Bioprocessing of Urban Organic Wastes by Anaerobic Digestion Coupled with Hydrothermal Carbonization for Value Added Bio-Carbon and Bio-Product Recovery: A Concept of Circular Economy. In Sustainable Environmental Geo-technics (pp. 47-54). Springer, Cham.
11. Panigrahi, S.[#], Sharma, H.[#], and Dubey, B., (2020). Integrated bio-processing of urban organic wastes by anaerobic digestion coupled with hydrothermal carbonization for value added bio-carbon and bio-product recovery: a concept of circular economy. Sustainable Environment and Infrastructure. Springer Publisher. (In production)
12. Bajaj, R.[#], Garg, K.[#], Panigrahi, S.[#], and Dubey, B., (2020). Improvement in biogas production by direct interspecies electron transfer technique: Current aspects and diverse prospects. Springer Publisher. (In-press)
13. Cheela. V.R.S.[#], Dubey B. (2019) Incorporation of Life Cycle Thinking in Development of Integrated Solid Waste Management Systems. In: Debashish Sengupta et al (eds) Treatment and disposal of Solid and Hazardous Wastes. Springer. 127- 144.
14. Cheela. V.R.S.[#], Shankar, U., and Dubey B. (2019) Solid Waste Management: Policies, Implementation and Challenges. In: Debashish Sengupta et al (eds) Treatment and disposal of Solid and Hazardous Wastes. Springer. 201- 210
15. Cheela. V.R.S.[#], and Dubey B. (2019) Review of Application of Systems Engineering Approaches in Development of Integrated Solid Waste Management for a Smart City. In: Rathinasamy M et al (eds) Water Resources and Environmental Engineering II. Springer. 159-177.
16. Praneeth, D.V. S.[#], Cheela, V.R.S[#], and Dubey, B.K., (2019) Environmental Risk Assessment for Beneficial Reuse of Coal Combustion Residues., in the Book - Waste Management and Resource Efficiency, 237-248, Springer, Singapore.
17. Vanapalli, K. R.[#], Samal, B.[#], Dubey, B. K., and Bhattacharya, J. (2018) "Emissions and environmental burdens associated with plastic solid waste management." In Plastics to energy, pp. 313-342. William Andrew Publishing, 2019. https://doi.org/10.1016/B978-0-12-813140-4.00012-1

18. Sharma, H.B[#], Panigrahi, S.[#], and Dubey, B., (2018). Landfill leachate and other types of wastewater treatment using constructed wetland. Treatment and Disposal of Solid and Hazardous Wastes (Springer, (available as hard copy), online version is scheduled for 2021 Oct).
19. Panigrahi, S.[#], Sharma, H.B[#], and Dubey, B., (2018). Optimization of F/M ratio during anaerobic co digestion of food waste with yard waste. Treatment and Disposal of Solid and Hazardous Wastes (Springer) (available as hard copy), online version is scheduled for 2022).
20. Gupta, A.K., Ghosal, P.S.[#], Dubey, B., (2017). Hybrid Nano adsorbents for Drinking Water Treatment: A Critical Review., Hybrid Nanomaterials: Advances in Energy, Environment, and Polymer Nanocomposites., 199-236
21. Pradhan, R., Pradhan, R., Dash, B., Dubey, B., and Dutta, A. (2017) Bioenergy Combined with Carbon Capture Potential by Microalgae at Flue Gas Based Carbon Sequestration Plant of Nalco as Accelerated Carbon Sink. Book Chapter published in the Book on Carbon Utilization - Applications to Energy Industry under Springer series on Green Energy and Technology, page 231-244.
22. Pokhrel, L.[#], and Dubey, B (2015). Early Developmental Responses of Plants Exposed to Metals and Oxides Nanoparticles (Chapter-8) in Siddiqui, M. H., Al-Whaibi, M. H., and Mohammad, F. "Nanotechnology and Plant Sciences – Nanoparticles and their Impacts on Plants" Springer Publishers.
23. Townsend, T., Dubey, B., and Solo-Gabriele, H (2008). Disposal Issues of Preservative Treated Wood, book chapter (Chapter-33) in Schultz, T., Miltz, H., Freeman. M., Goodell, B. and Nicholas, D. "Development of Commercial Wood Preservatives: Efficacy, Environment and Health Issues" ACS Symposium Series 982, published by American Chemical Society, Washington D.C. page no 545-562.
24. Jambeck, J., Dubey, B., Townsend, T. and Solo-Gabriele, H. (2006). Disposal of Preservative Treated Wood in Landfills, book chapter in Townsend, T., and Solo-Gabriele, H. "Environmental Impacts of Treated Wood" CRC Press, Boca Raton, FL, page no 467 – 485.
25. Cai, Y., Solo-Gabriele, H., Townsend, T., Khan, B., Georgiadis, M. and Dubey, B. (2006). Elemental Speciation and Environmental Importance Associated with CCA-Treated Wood, book chapter in Townsend, T., and Solo-Gabriele, H. "Environmental Impacts of Treated Wood" CRC Press, Boca Raton, FL, page no 117 - 137.

Full Papers Published in Conference Proceedings:

1. Cheela, V. R. S.[#], Shankar, U.[#], Dubey, B., and John, M (2019). "Using environmental forensics to aid landfill management in developing countries - An Indian Case Study". Paper in abstract book of 17th International Waste Management and Landfill Symposium (Sardinia 2019) on 30th September- 4th October, 2019 at Cagliari, Italy.
2. Praneet, S.[#], Chella, R. S.[#], and Dubey, B., (2017). Environmental Risk Assessment for Beneficiary Use of Coal Combustion Residues Using Leaching Environmental Assessment Framework, Paper in the Proceedings of 19th International Conference on Solid Waste (ICSW 2017) Paris, France; February 23-24, 2017. The student received the "Best Student Paper Award".
3. Nuralam, H.[#], Xiao-lan, Z., Dubey, B., Wen-Chuan, D., (2017). *Healthcare Waste Management Practices in Bangladesh: A Case Study in Dhaka City, Bangladesh*, Paper in the Proceedings of 19th International Conference on Solid Waste (ICSW 2017) Paris, France; February, 23-24, 2017.

4. Silva, T.[#], Chella, R. S.[#], and Dubey, B., (2016). *Contribution of Biodegradable Plastics to Global Methane Production*, Paper in the Proceedings of 6th International Conference on Solid Waste Management, Kolkata, India, Nov 24 – 26, 2016.
5. Praneet, S.[#], Chella, R. S.[#], and Dubey, B., (2016). *Environmental risk assessment for beneficial reuse of coal combustion residues*, Paper in the Proceedings of 6th International Conference on Solid Waste Management, Kolkata, India, Nov 24 – 26, 2016.
6. Dubey, B., and Sarkar, S. [#], (2016). Use of Life Cycle Analysis Data as a Decision Tool in Sustainable Built Environment, Paper in the Proceedings of INNOVA 2016, published as part of the Annual Technical Magazine of the Chemical Engineering Department, Jadavpur University, Kolkata, page 13-19
7. Jahanfar, M.[#], Dubey, B., Gharabaghi, B., and McBean, E., (2016). Landfill Failure Mobility Analysis: A Probabilistic Approach, Geological and Environmental Engineering Conference (World Academy of Science, engineering and Technology; WASET)
8. Paul, S.[#], Dubey, B., and Dutta, A. (2014). Evaluation of a Hybrid Approach of Food Waste Management, Paper Number 141897079, Paper in the Proceedings of 2014 ASABE and CSBE/SCGAB Annual International Meeting, Sponsored by ASABE, Montreal, Quebec Canada, July 13 – 16, 2014
9. Baah, K.[#], and Dubey, B., (2014). A Review of Surfactant Enhanced Remediation of Contaminated Soil, Paper in the proceedings of 2014 Canada Water Resource Congress, June 2-4, Hamilton, ON Canada.
10. Paul, S.[#] and Dubey, B., (2013). *Food Waste Composting Nitrous Oxide as GHG Emission*, Paper Number 131620588, Paper in the Proceedings of American Society of Agricultural and Biological Engineering (ASABE) annual international meeting, Kansas City, Missouri, USA July 21-24, 2013.
11. Dubey, B., Pokhrel, L.[#], and Scheuerman, P., (2012). *Ecological Risk Assessment of Zinc Oxide Nanoparticles*, Paper in the Proceedings of the 2nd International Conference on Environmental Pollution and Remediation, Montreal, Quebec, Canada, 28-30 August 2012
12. Bempah, C., Donkor, A., Dubey, B., Yeboah, P. and Attandoh, N. (2010) Environmental Monitoring of Chlorinated Pesticide Residues in Selected Fruits from Ghanaian Markets presented at International Conference on Water and Health: Where Science meets Policy, UNC, Chapel Hill, October 23-26, 2010.
13. Kumi-Amoah, G., Donkor, A., Nartey, V., Dubey, B., and Attandoh, N. (2010) Seasonal trends in Groundwater Arsenic levels in Obuasi Municipality and its vicinity, Ghana: The impact of Gold mining,presented at International Conference on Water and Health: Where Science meets Policy, UNC, Chapel Hill, October 23-26, 2010.
14. Dubey, B., Townsend, T. and Santra, S. (2009) Preliminary Evaluation of Environmental Impact of Nanoparticles and Nanoparticle Containing Discarded Waste Materials on Waste Disposal Systems, Conference Proceedings (on CD), International Conference on the Environmental Implications and Applications of Nanotechnology, June 9-11, 2009, University of Massachusetts, Amherst.
15. Dubey, B., and Townsend, T., (2008) Biomass Resource Assessment: Availability and Cost Analysis of Using Municipal Solid Waste Components as Alternative Fuel Sources for Power Generation: A Case Study of Gainesville, Florida, USA, Paper published in Conference Proceedings, Renewable Energy Asia Conference, organized by Kyoto University, Japan and Indian Institute of Technology, Delhi, New Delhi, India, December 11 - 13, 2008.
16. Dubey, B., and Townsend, T. (2008) A Review of Environmental Risk Assessment Approach for Emerging Waste Streams, Paper presented at 2nd International Congress of Environmental Research, Goa, India, December 18 - 20, 2008.

17. Dubey, B., Townsend, T. and Solo-Gabriele, H. (2006). Comparison of Relative Risks from Preservative Components of Treated Wood Structures, Paper presented at Wood Protection 2006, Forest Products Society, New Orleans, USA, March 21 - 23, 2006.
18. Dubey, B., Townsend, T. and Solo-Gabriele, H., (2006). Comparison of CCA- and ACQ-Treated Wood Disposal in a Construction and Demolition Debris Landfill, Paper presented at Wood Protection 2006, Forest Products Society, New Orleans, USA, March 21 - 23, 2006.
19. Solo-Gabriele, H., Townsend, T., Jacobi, G. and Dubey, B. (2006). Methods to Minimize Preservative-Treated Wood in Recovered Wood Waste, Paper presented at Wood Protection 2006, Forest Products Society, New Orleans, USA, March 21 - 23, 2006.
20. Dubey, B., Townsend, T., Solo-Gabriele, H. and Bitton, G. (2005). Comparison of Temporal Changes in Metal Leaching and Aquatic Toxicity from Wood Treated with CCA and Alternative Preservatives, Proceedings 2005, IRG/WP 05-50236, Paper presented at 36th Annual Meeting of International Research Group on Wood Preservation at Bangalore, India, April 24 - 28, 2005.
21. Solo-Gabriele, H., Townsend, T., Jacobi, G., Dubey, B., Fernandes, J., and Lam, E. (2005). Wood Waste Management Practices in the U.S. with Emphasis on the Management of Wood Treated with Metal-Based Preservative, Paper presented at COST E31 Management of Recovered Wood, 2nd Conference: Towards a Higher Technical, Economical and Environmental Standard, 29th September – 1st October, 2005; Wood and Furniture Technical Centre (CTBA), 33000, Bordeaux, France.
22. Townsend, T., Dubey, B., Jambeck, J. and Solo-Gabriele, H. (2005). Disposal of Pressure Treated Wood in Construction and Demolition Debris Landfill; Proceedings 2005, IRG/WP 05-50235, Paper presented at 36th Annual Meeting of International Research Group on Wood Preservation at Bangalore, India, April 24 - 28, 2005.
23. Shibata, T., Solo-Gabriele, H., Townsend, T. and Dubey, B. (2005). Leaching of Arsenic from mulch made from Recycled Construction and Demolition Wood, Proceedings 2005, IRG/WP 05-50232, Paper presented at 36th Annual Meeting of International Research Group on Wood Preservation at Bangalore, India, April 24 - 28, 2005.
24. Solo-Gabriele, H., Townsend, T., Yong, C., Khan, B., Song, J., Jambeck, J., Dubey, B. and Jang, Y. (2005). Speciation of Leachate from CCA-Treated Wood, Proceedings 2005, IRG/WP 05-50224:27, Paper presented at 6th International Symposium, Environment and Wood Preservation, at Cannes-Mandelieu, France, Feb 7-8, 2005.
25. Dubey, B., Townsend, T., and Solo-Gabriele, H. (2004). Metal Leaching from Pressure Treated Wood in Sanitary Landfill Leachate, Proceedings 2004, IRG/WP 04-50220, Paper presented at 35th Annual Meeting of International Research Group on Wood Preservation at Ljubljana, Slovenia, June 6-10, 2004.
26. Dubey, B., Townsend, T., and Solo-Gabriele, H. (2004). Comparing Arsenic Leachability in Landfill Leachate and in TCLP, Proceedings 2004, Nineteenth International Conference on Solid Waste Technology and Management; Philadelphia, March 21-24, 2004, 567-576.
27. Townsend, T., Dubey, B. and Solo-Gabriele, H. (2004). Assessing Potential Wood Disposal impact from Preservative Treated Wood Products- A Life Cycle Analysis Approach, Proceedings 2004, International Conference on Environmental Impact of Preservative-Treated Wood; Orlando, February 8 – 11, 2004, 169-188.

Magazine/Newspaper Article

1. Dubey, B., 2018. *For Effective waste disposal, segregation is the key*, Newspaper Article in Economic Times, published on Jan 13th 2018. Link https://economictimes.indiatimes.com/news/politics-and-nation/for-effective-waste-disposal-segregation-is-the-key/articleshow/62490740.cms

2. Dubey, B., 2015. *Integrated Waste Management Plan for Clean India – View Point* in the Clean India Journal, January 15, 2015 page 60 - 62. Also available at www.cleanindiajournals.com
3. Dubey, B., and Singhal, N., 2014. *Organics Waste Diversion from Landfills – Case Study from Auckland, New Zealand* in the Clean India Journal, July – Sep 2014 page 46-48. Also available at www.wasterecyclingindia.com
4. Pokhrel, L.[#], Dubey, B., and Scheuerman, P., 2011. Pharmaceuticals in the aquatic environment: A critical appraisal of uncertainty and knowledge gaps in human health risk assessment. NESAJ Patra, Volume 8, Issue-1, Published by Nepali Student Association of Japan, University of Tokyo, Japan.
5. Solo-Gabriele, H., Jacobi, G., Dubey, B., and Townsend, T., 2005. Warning Signs: certain chemical preservatives are unwelcome contaminants in the mulch and wood fuel markets. *Construction & Demolition Recycling*, September/October: 24-32.

Published abstracts

1. Sharma, H. B.[#], and Dubey, B. K. (2020). Hydrothermal carbonization of organic fraction of municipal solid waste for densified solid biofuel production. Abstract in proceedings of RECYCLE 2020: 3rd International Conference on Waste Management on 14- 14th February 2020 at IIT Guwahati, India.
2. Venna, S.[#], Sharma, H. B.[#], and Dubey, B. K., Reddy, H.P (2020). Gate to gate life cycle assessment of hydrothermal carbonization process for food waste and yard waste. Abstract in proceedings of RECYCLE 2020: 3rd International Conference on Waste Management on 14- 14th February 2020 at IIT Guwahati, India.
3. Sharma, H. B.[#], and Dubey, B. K. (2019). Hydrothermal carbonization of green waste into solid biofuel. Abstract in the proceedings of the 8th International Conference on Clean Green Energy, ICCGE on 13-15 February, 2019, Milan, Italy.
4. Panigrahi, S.[#], and Dubey, B., (2018). Anaerobic co digestion of food waste with yard waste. ICACSE 2018, NIT Trichy, India.
5. Cheela, V. R. S.[#], Dubey, B. and John, M (2019). Temporal study on municipal solid waste management practices in developing countries: an Indian case study. Paper in abstract book of International Conference on Resource Sustainability Cities (icRS Cities 2019) on 1-3 July, 2019 at Adelaide, Australia.
6. Cheela, V. R. S.[#], Dubey, B. and John, M (2019) Home composting systems for organic waste treatment: technologies, greenhouse gas emissions and economic analysis. Paper in abstract book of 2nd Global Summit on Recycling and Waste Management, 22-23 July, 2019 at Tokyo, Japan.
7. Panigrahi, S.[#], and Dubey, B., (2018). "Effect of mode of heat transfer in thermal pretreatment to improve anaerobic biodegradability of lignocellulosic waste" in 2rd Recycle 2018, IIT Guwahati, India.
8. S. M. Sathe[#], B. K. Dubey, M. M. Ghangrekar (2020). 'Adsorptive removal of surfactants in batch experiments using laterite as a low cost adsorbent'. Paper in the abstract book of Second ASCE India Conference on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020) on 2-4th March, 2020 at Kolkata, India.
9. Manasa S, Arundhathi V, Lakshmi K, Varsha V, Dubey B.K. and Baranidharan S (2018) "Comparative Life Cycle Assessment of Various Synthesis Routes of Silver Nanoparticles" Paper in the National Environmental Conference IIT Bombay Diamond Jubilee Year Conference (NEC- 2019) 31st Jan - 2nd Feb 2019, IIT Bombay, India.

10. Chakraborty, I. [#], Sathe, S.M. [#], Dubey, B.K., and Ghangrekar, M.M. (2019). Performance monitoring of a pilot scale upflow anaerobic sludge blanket reactor treating domestic wastewater under different organic loading rate. Presented in 16th Specialised conference on Small Water and Wastewater Systems, Murdoch University, Perth, Australia 1st to 5th December 2019.
11. Baranidharan S., Sudipta B, [#] Vikas S, Chandra A and Dubey B.K. (2018) Life Cycle Assessment of Production of Cobalt Oxide Nanoparticles for Supercapacitors Paper in the Indian Conference on Life Cycle Management, 4th -5th October, Mumbai, India.
12. Samal, B. [#], Dubey, B. K., and Bhattacharya, J. (2019) Characteristics of char produced from co-pyrolysis of waste low-density polyethylene and eucalyptus wood as an alternative energy source. 8th International Conference on Clean Green Energy, ICCGE 2019. Held on 13-15 February 2019, Department of Chemistry, Materials and Chemical Engineering "Giulio Natta" P.zza Leonardo da Vinci, Milan, Italy.
13. Samal, B. [#], Dubey, B. K., and Bhattacharya, J. (2020) Influence of process parameters on thermal properties of co-pyrolytic char produced from eucalyptus wood and waste low-density polyethylene". 3rd International Conference on Waste Management, RECYCLE 2020. Held on February 13-14, 2020, IIT Guwahati, Assam India.
14. I. Chakraborty, [#] S. Das, B. K. Dubey & M. M. Ghangrekar (2020). Application of plastic based char as a novel cathode catalyst in microbial fuel cell. Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies", CRSIDE2020, March 2-4, 2020, Kolkata, India.
15. Bindra N,[#] Dubey B, and Dutta A. (2016). Technological and Life Cycle Assessment of Organics Processing Odour Control Technologies. Paper Presented at the Indian Life Cycle Management Conference, Oct 17-18, New Delhi, India.
16. Rosen M. B, Pokhrel L. R, and Dubey B. (2016). Evaluation of Multiple Heavy Metals and Metalloids in Glass Beads Used in Retroreflective Road Markings. Abstract ID: 2518130, 252nd ACS National Meeting, Philadelphia, PA, August 21-25, 2016.
17. Rosen M B, Pokhrel L R, and Dubey B. (2016). Quantification and Environmental Risk Assessment from Multiple Heavy Metals and Metalloids in Glass Beads Used in Retroreflective Road Markings. College of Public Health Research Day, Temple University, Philadelphia, PA, April 20, 2016.
18. Fosu, P. O., Donkor, A. K., Kingsford-Adaboh R., Asante, I., Nyarko, S., and Dubey, B. (2016) Exposure Assessment of the Ghanaian Population to Pesticide Residues Through Fruit and Vegetable Consumption "Science For Development: Ghana Asks, Legon Answers", 2016 College of Basic & Applied Sciences (CBAS) Annual Science and Development Platform; 17-19 February, 2016, RS Amegashie Auditorium, UGBS/Centre for African Wetlands Auditorium, University of Ghana, Legon- Accra, Ghana.
19. Dubey, B., (2015). Environmental Pollutants from Waste Management Systems, Invited Key Note Presentation at the University Grants Commission (UGC) Sponsored Two Day National Seminar on "Environmental Pollutant: Safety Measure and Management" Dec 5th-6th, 2015 at Magadh Mahila College, Patna University, Patna, India
20. Dubey, B., (2015). Sustainable Waste/Resource Management: Issues and Challenges, Invited presentation at the 4th Conference on "Waste – Uninterrupted Resource and Encouraging Opportunities", Waste to Energy Research and Technology Council (WTERT – India), Mumbai, India, Nov 26th -27th, 2015.
21. Nyarko, S.[#], Donkor, A., and Dubey, B., (2014). Preliminary Assessment of Environmental Impact of CCA-treated Wood in the Ghana, Paper presented at the Global Development Symposium, Guelph, Ontario, Canada, May 4-7, 2014, Page-88

22. Mohammad, M.[#], Donkar, A., Dubey, B., Egyir, I., and Amoah, P., (2014). Biogas Production Potential from Greywater from Households in Accra Metropolis, Ghana, Poster presented at the Global Development Symposium, Guelph, Ontario, Canada, May 4-7, 2014, Page-72
23. Jahanfar, A.[#] and Dubey, B., (2014). Development of Risk Assessment Tool for Landfill Failure, Paper presented at the 29th International Conference on Solid Waste Technology, Philadelphia, PA USA March 30- April 2nd 2014
24. Pokhrel, L.[#] and Dubey, B., (2014). General Linear Model-Predicted and Observed Toxicity of Three Organo-Coated Silver Nanoparticles: Impacts of Particle Size, Surface Charge and Dose, Abstract ID# 685, Paper presented at 2014 ASCE World Environmental & Water Resources Congress, June 1-5, Portland, Oregon.
25. Samoilenko, I.[#], Farahbakhsh, K., Dubey, B., (2014). Phytoremediation as a Possible Solution to Remediate Radioactive Contaminated Area in Chornobyl, Ukraine, Paper presented at the Guelph Engineering Symposium, March 27th University of Guelph, Ontario, Canada
26. Baah, K.[#], Dubey, B., McBean, E., (2014). Risk Assessment of Sewer Pipe Failure: A Case Study of City Guelph, Ontario, Paper presented at the Guelph Engineering Symposium, March 27th University of Guelph, Ontario, Canada
27. Qamar, S.[#], Dubey, B., and Zytner, R., (2014). Industrial Commercial and Institutional (IC&I) Waste Stream: An Energy Source for Ontario, Paper presented at the Guelph Engineering Symposium, March 27th University of Guelph, Ontario, Canada
28. Paul, S.[#], Dubey, B., Dutta, A., (2014). Evaluation of a Hybrid Approach for Food Waste Management, Paper presented at the Guelph Engineering Symposium, March 27th University of Guelph, Ontario, Canada
29. Bindra, N.[#], Dubey, B., (2014). Life Cycle Assessment of Odor Control Technologies for MSW Organics Processing, Paper presented at the Guelph Engineering Symposium, March 27th University of Guelph, Ontario, Canada
30. Dubey, B. and Pokhrel, L.[#], (2013). Implications of Engineered Nanoparticles and Nanowaste in the Waste Disposal and Treatment System, Paper presented at International Solid Waste Association World Congress, Oct 7th – 9th 2013, Vienna, Austria.
31. Dubey, B., Pokhrel, L.[#], Silva, T.[#], (2013). The Toxicity of Metal Nanoparticles and the Role of Water Chemistry and Organic Ligands, In the Proceedings of 59th International Conference of Analytical Sciences and Spectroscopy organized by Canadian Society for Analytical Sciences and Spectroscopy, Mont-Tremblant, Québec, Canada June 26-28, 2013.
32. Samoilenko, I.[#], Dubey, B., (2013). Nitrate Fate and Transport: Case Study of a River System in Ukraine, Paper presented at the Guelph Engineering Symposium, March 28th University of Guelph, Ontario, Canada
33. Jahanfar, A.[#], Dubey, B., and McBean, E., (2013). Stability Risk Assessment of Leuwigajah Dumpsite, Paper presented at the Guelph Engineering Symposium, March 28th University of Guelph, Ontario, Canada
34. Nourin, N.[#], Dubey, B., (2013). A Mass Balance Model to Evaluate Arsenic Contamination in Cropland Soils of Bangladesh, Poster presented at the Guelph Engineering Symposium, March 28th University of Guelph, Ontario, Canada
35. Joseph, T.[#], Dubey, B., (2013). Arsenic in Soil-Rice Plant Systems: Fate, Transport and Human Risk Assessment, Paper presented at the Guelph Engineering Symposium, March 28th University of Guelph, Ontario, Canada

36. Qamar, M.[#], Dubey, B., (2013). A Review of Fate and Transport of Engineered Nanoparticles in the Environment, Paper presented at the Guelph Engineering Symposium, March 28th University of Guelph, Ontario, Canada
37. Paul, S.[#], Dubey, B., (2013). Nitrous Oxide as Greenhouse Gas Emissions for Food Waste Composting, Paper presented at the Guelph Engineering Symposium, March 28th University of Guelph, Ontario, Canada
38. Pokhrel, L.[#], and Dubey, B., (2012). Metal Mining Industry: Global Production Statistics, Potential Environmental Effects, Mitigation Techniques, and Sustainability, Paper presented at The International Congress on Science and Technonology, Dec 22nd – 24th, 2012, Allahabad, India
39. Pokhrel, L.[#], and Dubey, B., (2012). Potential Developmental Toxicity of Silver and Zinc Oxide Nanoparticles to the Terrestrial Plants, Paper presented at The 28th Annual International Conference on Soils, Sediments, Water and Energy, UMass Amherst, Oct 15th -18th, 2012.
40. Dubey, B., and Dutta, A., (2012). Waste Treatment Using Advanced Thermal Technologies: Torrefaction of Nonconventional Waste Biomass, International Summit on Waste-to-Energy: An Emerging Trend Towards Environmental Sustainability, NDCC Convention Centre, Jaisingh Marg, New Delhi, 9th& 10thJuly 2012.
41. Pokhrel, L.[#], Dubey, B., and Scheuerman, P., (2012). Developmental Phytotoxicity of Silver and Zinc Oxide Nanoparticles to the Crop Plants, NEHA Conference, June 28-30, San Diego, CA. (Winner of AEHAP Student Competition Research Award 2012).
42. Dubey, B., and Pokhrel, L.[#], (2012). Opportunities for Nanoparticle Research, Invited presentation at University Consortium for Field-Focused Groundwater Contamination Research Program, Annual Progress Meeting: June 12-14, 2012 The Arboretum, University of Guelph.
43. Craig, E.[*], Nandi, A., Dubey, B., and Evanshen, B., (2012). Mineralogic, Statistical and Chemical Analysis Concerning the Implacement of Iron Ore in the Cranberry Granite Formation, Poster presented at 2012 Appalachian Student Research Forum, Johnson City, TN, April 5, 2012.
44. Pokhrel, L.[#], Dubey, B., Tolaymat, T., and Scheuerman, P. (2012). Potential Impacts of Metal Nanoparticles on the Development of Crop Plants, Paper presented at 2012 Appalachian Student Research Forum, Johnson City, TN, April 5, 2012.
45. Dubey, B. (2012). Assessing Risk to Groundwater from Land Applied Granular Waste, Paper presented at Ontario Research Fund "Sustainable Bedrock Water Supplies for Ontario Communities" Annual Progress Meeting: OAC Centennial Arboretum Centre, University of Guelph, March 26-27, 2012.
46. Pokhrel, L.[#], and Dubey, B., (2012). Silver and Zinc Oxide Nanoparticles Cause Developmental Anomalies in the Crop Plants, Paper presented at 2012 East Tennessee Environmental Conference, Kingsport, Tennessee, March 13-14, 2012
47. Pokhrel, L.[#], Dubey, B., and Singhal, N. (2012). Assessing the Environmental Risks from Road Marking Glass Beads. Paper presented at 2012 East Tennessee Environmental Conference, Kingsport, Tennessee, March 13-14, 2012.
48. Craig, E.[*], Nandi, A., Dubey, B., and Whitelaw, M., (2011). Mineralogy and Geochemistry of the Magnetite Ore and Granitoid Host Rock in the Cranberry Iron Mine, Western North Carolina, Poster presented at 2011 GSA Annual Meeting in Minneapolis, 9–12 October 2011, Paper No. 243-15
49. Pokhrel, L. [#], Dubey, B., El Badawy, A., and Tolaymat, T., (2011). Evaluation of Aquatic Toxicity of Nanoscale Silver, Zinc Oxide, Titanium Dioxide and Cadmium Selenide Quantum Dots, and their Ionic Particulates to the MetPLATE™ Bioassay, Paper presented at The 27th Annual International Conference on Soils, Sediment, Water

and Energy, Oct 17th to 20th, 2011, University of Massachusetts, Amherst, MA. *Mr. Pokhrel received best student presentation award for this platform presentation.*

50. Pokhrel, L. #, Silva, T.#, El Badawy, A., Tolaymat, T., and Dubey, B., (2011). Assessment of Aquatic Toxicity of Metal Nanoparticles using MetPLATE™ Bioassay as a Rapid Screening Tool, Poster presented at Gordon Research Conference on Life Cycle Perspectives of Nanostructured Materials: Synthesis, Characterization & Risk Assessment for Public Health, Waterville Valley, NH, May 29th to June 3rd, 2011.
51. Dubey, B., and Moore, K., (2011). Improving MSW recycling at East Tennessee State University as a part of campus wide green initiative, Paper presented at Tennessee Department of Environment and Conservation 40th Annual Solid Waste Conference, Gatlinburg, Tennessee, April 27-29, 2011
52. Dubey, B., and Silva, T. #, (2011). Methane from Biodegradable Plastics: Is it a Significant Source of Green House Gas Emission, Paper presented at Tennessee Department of Environment and Conservation 40th Annual Solid Waste Conference, Gatlinburg, Tennessee, April 27-29, 2011
53. Pokhrel, L. #, and Dubey, B., (2011). Assessment of Aquatic Toxicity of Metal Nanoparticles using MetPLATE™ Bioassay as a Rapid Screening Tool, Paper presented at Appalachian Student Research Forum, Johnson City, TN, March 24, 2011.
54. Silva, T. #, and Dubey, B., (2011). An Estimation of Contribution of Biodegradable Plastics to Global Methane Production, Poster presented at Appalachian Student Research Forum, Johnson City, TN, March 24, 2011.
55. Pokhrel, L. #, and Dubey, B., (2011). Nanoecotoxicology and Human Health: Where Do We Stand?, Poster presented at Appalachian Student Research Forum, Johnson City, TN, March 24, 2011.
56. Silva, T. #, and Dubey, B., (2011). Potential Contribution of Biodegradable Plastics to Global Methane Production, Paper presented at 2011 East Tennessee Environmental Conference, Kingsport, Tennessee, March 15-16, 2011.
57. Sinhababu, K., and Dubey, B., (2010). Performance Evaluation of Infiltration and Filtration Storm water Management Practices, Paper presented at the Unban Drainage, Sewerage and Irrigation Conference, Muscat, Oman, September 26-27, 2010.
58. Dubey, B. (2010). Economic Issues of Recycling of Solid Waste Components, Oral presentation made at Tennessee Pollution Prevention Partnership Conference (TP3), Montgomery Bell State Park, Burns, Nashville, TN, September 23-24, 2010.
59. Pokhrel, L.# and Dubey, B. (2010). Investigation of Fate and Transport of Silver Nanoparticle in Waste Disposal Systems Poster presented at 2010 Appalachian Student Research Forum, Johnson City, TN, April 6-8, 2010
60. Silva, T.# and Dubey, B. (2010). Environmental Concerns of Nanoparticles in Wastewater Treatment Plant – A Review Poster presented at 2010 Appalachian Student Research Forum, Johnson City, TN, April 6-8, 2010
61. Holley, A.*, Boggan, J.*, Bannister, J.*, Reynolds, H.*, Panganiban, J.*, Hammond, L.# and Dubey, B. (2010). Biological and Chemical Analysis of Water Samples collected over a Period of One Year from Brush Creek, Johnson City, TN, Part-1; Poster presented at 2010 Appalachian Student Research Forum, Johnson City, TN, April 6-8, 2010
62. Jarratt, T.*, Justus, K.*, Rogers, B.*, Woody, J.*, Fleetwood, F.*, Hammond, L.# and Dubey, B. (2010). Biological and Chemical Analysis of Water Samples collected over a Period of One Year from Brush Creek, Johnson City, TN, Part-2; Poster presented at 2010 Appalachian Student Research Forum, Johnson City, TN, April 6-8, 2010
63. Dubey, B. (2010). Environmental Risk Assessment of Emerging Waste Materials: Issues and Challenges, Presented at Tennessee Department of Environment and Conservation 39th Annual Solid Waste Conference, Gatlinburg, Tennessee, April 28-30, 2010

64. Dubey, B and Singhal, N. (2010). Evaluation of Test Methods for Assessing the Environmental Risks from Road Marking Glass Beads, Presented at 2010 American Chemical Society Annual Meeting in San Francisco, California, Division of Environmental Chemistry, Session of Sustainable Waste Management: Issues and Challenges, March 21-25, 2010.
65. Dubey, B. (2010). Environmental Risk Assessment for Beneficial Reuse and Disposal Options of Waste Materials: Issues and Challenges, Presented at 2010 East Tennessee Environmental Conference, Kingsport, Tennessee, March 16-17, 2010.
66. Wang, Y.[#], Dubey, B., Townsend, T., and Rhue, D. (2008). Laboratory Studies for Assessing Reductive Iron Dissolution in Landfill Soils, Poster Presented at SWANA Florida Sunshine Chapter Senior Managers Conference, St. Augustine, FL, Jan 21-23, 2008
67. Santra, S., Dubey, B., Patel, C., Kar, S., and Townsend, T. (2007). Preliminary Study to Assess Fate and Transport of Different Manufactured Nanoparticles (MNPs) in Different Soil Matrix, Presented at 2007 Florida Section ACS meeting (FAME 2007) at Orlando, Florida, USA.
68. Misra, A.[#], Dubey, B., Wu, C., Townsend, T., and Solo-Gabriele, H. (2005). Controlling Heavy Metal Emission and Leaching in Combustion Environments by using Sorbent Technology during Disposal of Chromated Copper Arsenate (CCA) Treated Wood , Paper presented at 2005 Florida Section A&WMA Annual Conference at St. Pete Beach, Florida, USA, Oct 23-25, 2005.
69. Misra, A.[#], Dubey, B., Wu, C., Townsend, T., and Solo-Gabriele, H. (2005). Use of mineral Sorbents to Control the Emission and Leaching of Arsenic, Chromium and Copper during the Disposal of CCA Treated Wood, Paper presented at International Symposium on the Role of Adsorbed Films and Particulate Systems in Nano and Biotechnologies at Gainesville, Florida, USA, Aug 24-26, 2005.
70. Misra, A.[#], Dubey, B., Wu, C., Townsend, T., and Solo-Gabriele, H. (2005). Evaluating the use of sorbent technology in thermal processes for disposal of Chromated Copper Arsenate (CCA) treated wood in combustion facilities, Paper presented at Florida 81st Annual Meeting and Exposition (FAME) 2005 organized by American Chemical Society (ACS) Florida Section at Orlando, Florida, USA, May 5-7, 2005.
71. Dubey, B., Jacobi, G., Townsend, T., and Solo-Gabriele, H. (2005). CCA-Treated Wood in Consumer Mulches: Tools to Minimize Contamination, Proceedings 2005, Special Waste Symposium, Solid Waste Association of North America (SWANA), West Palm Beach, Florida, Feb 7-10, 2005.
72. Dubey, B., Townsend, T. (2005). Arsenic and Lead Leaching from the Waste Derived Fertilizer Ironite™, Poster Presented at Florida Department of Environmental Protection Solid Waste Workshop 2004-2005, Cocoa Beach, Feb 15-17, 2005. This poster was also presented at 7th Annual Environmental Engineering Sciences Poster Symposium, April 12th 2005.
73. Dubey, B., Sylvie, M.[#], Townsend, T. (2005). Comparing Arsenic Leachability in TCLP with Other Leaching Procedures, Poster Presented at Florida Department of Environmental Protection Solid Waste Workshop 2004-2005, Cocoa Beach, Feb 15-17, 2005. This poster was also presented at 7th Annual Environmental Engineering Sciences Poster Symposium, April 12th 2005. Received third prize in graduate category.
74. Misra, A.[#], Dubey, B., Wu, C.Y., Townsend, T., and Solo-Gabriele, H. (2005). Use of Sorbent Technology to Prevent Leaching of Heavy Metals (As, Cr, Cu) and Their Application to Disposal of CCA Treated Wood in Combustion Systems, Poster presented at 7th Annual Environmental Engineering Sciences Poster Symposium, April 12th 2005.

75. Spalvins, E., Dubey, B., Sylvie, M. [#], Townsend, T. (2005). Simulated Landfill Lysimeters to Asses the Leaching of Metals from Potentially Hazardous Wastes, Poster Presented at Florida Department of Environmental Protection Solid Waste Workshop 2004-2005, Cocoa Beach, Feb 15-17, 2005. This poster was also presented at 7th Annual Environmental Engineering Sciences Poster Symposium, April 12th 2005. Received first prize in graduate category.
76. Dubey, B., Townsend, T. and Solo-Gabriele, H. (2004). Leaching of Preservatives from Pressure-treated wood in sanitary landfills, Received 2nd Prize at UF AWMA 6th Annual Environmental Poster Symposium, April 15, 2004.
77. Jacobi, G., Solo-Gabriele, H., Townsend, T., Dubey, B. and Lugo, L. (2004). Extent of CCA-Treated Wood in Consumer Mulches. International Conference on Environmental Impact of Preservative-Treated Wood; Orlando, February 8 – 11, 2004. This poster was also presented at the NIEHS-MFBS Center/Arch Program Science Symposium held in Miami, FL on March 18, 2004.
78. Dubey, B., Townsend, T. and Solo-Gabriele, H. (2004). Leaching of Copper, Chromium and Arsenic from CCA-treated wood in sanitary landfill leachate, International Conference on Environmental Impact of Preservative-Treated Wood; Orlando, February 8 – 11, 2004.
79. Dubey, B., Townsend, T. and Garret, K. (2003). Leaching of Milled Asphalt Pavement Amended with Waste to Energy Ash, Poster Presented at 2003 Annual Conference of Florida Section Air and Waste Management Sept 7-9, 2003, Orlando USA.

Invited Presentations/Seminars

1. Invited to deliver seminar on "Development of a Sustainable Waste Management Infrastructure - Global Issues and Challenges", delivered on 10th August, 2018 as part of Departmental Friday Seminar Series at Department of Civil Engineering, Monash University, Melbourne, Australia.
2. Invited to deliver seminar on "Smart Resource Management for Sustainable Urbanization: Development of a Scientific Waste Management Infrastructure", delivered on 3rd August as part of Departmental Seminar Series at Department of Infrastructure Engineering, The University of Melbourne, Melbourne, Australia.
3. Invited to present on "Waste/Resource Management-Challenges, Barriers and Strategies Experience from Canada", delivered as part of Global Leadership Program on Circular Economy – Preparing Leaders for the Transformation to a Circular Economy, 17th -23rd June, 2018, Adelaide, Australia organized by Green Industries SA in partnership with Ekonnect Knowledge Foundation and Environmental Management Centre LLP and Circular Economy Alliance Australia..
4. Invited to deliver seminar on "Waste Management Issues for Developing Countries – Experience from India", delivered on 2nd Aug 2018 at Department of Engineering, La Trobe University, Melbourne, Australia.
5. Invited to deliver seminar on "Sustainable Waste Management Plan for Kolkata", delivered on 25th April 2018 as part of Training program on "Industrial Pollution Management –Compliance & Enforcement practices in Sweden", 24th to 26th April, 2018; at The Gateway Hotel , EM Bypass Kolkata, Organized by West Bengal Pollution Control Board, India and Swedish Environmental Protection Agency.
6. Invited to give lecture on "Life Cycle Analysis as a Tool for Sustainable Engineering", as part of QIP Short Term Course on Sustainability Issues in Civil Engineering, at Indian Institute of Science, Bangalore, India, 7th to 11th May, 2018.
7. Invited to give lecture on "Mathematical Methods/Intro Modeling in Environmental

Engineering", as part of AICTE QIP course on Mathematical Methods in Civil Engineering, at Indian Institute of Technology – Kharagpur, 19th to 23rd Feb, 2018.

8. Invited to give lecture on "Intro to Environmental Modeling", as part of AICTE-QIP Short Term Course on Advanced Computing Tools in Civil Engineering, at Indian Institute of Technology – Kharagpur, 5th to 9th Mar, 2018.
9. Invited to deliver "Science Lecture Series" on Waste Management for Sustainable Urbanization, delivered on 17th Nov 2017 at the Consulate General of the Federal Republic of Germany, Kolkata, India
10. Invited to present on "Waste Management Issues for Smart Cities" at the Smart Cities Workshop –Sustainable Urban Development, Organized by Heidelberg University, Germany ORF, SPA and BayIND In Collaboration with Xavier University Bhubaneswar and Indo-German Chamber of Commerce, at Hotel Mayfair Lagoon, Bhubaneswar, September 21-22, 2017
11. Invited as a Chief Guest for Engineers Day function at MVGR College of Engineering (Autonomous), Vizianagaram, Andhra Pradesh, delivered two invited lectures on "Waste Management Challenges for Urban India" and on "Research Initiatives that Country needs in Environmental Field", Sept 15th 2017
12. Invited Research Seminar at Annual Technical Meet of IIChE Students' Chapter of Chemical Engineering Department, Jadavpur University (INNOVA 2016) on "Use of Life Cycle Analysis as a Decision Tool in Environmental Engineering" Organized by Indian Institute of Chemical Engineers Students' Chapter of Chemical Engineering Department, Jadavpur University, April 7th 2016.
13. Invited Research Seminar at World Environment Day Program at Indian Institute of Technology - Kharagpur on "Challenges for Municipal Solid Waste Management in India", Organized by Institution of Engineers India and School of Environmental Science and Engineering, June 5th, 2015.
14. Invited Research Seminar at Centre for Environmental Science and Engineering, Indian Institute of Technology – Bombay, Mumbai, India on "Solid Waste Management Issues and Challenges: A Summary of Research Efforts with a Case Study of E-Waste Management Issues" April 4, 2014.
15. Invited Lecture at Amritapuri Center for Sustainable Future, Amritapuri Campus, Amrita Vishwa Vidyapeetham University, Clappana, Kollam, Kerala, India on "Basics of Environmental Control and Associated Technologies", March 19th, 2014.
16. Invited Seminar at Mata Amritanandamayi Math, Amritapuri, Kollam, Kerala, India on "Latest Global Trends in Water and Waste Problems", March 20th, 2014.
17. Invited Lecture at Amrita School of Engineering, Amrita University, Ettimadai, Coimbatore, India on "The Hazardous Waste Perspective", March 27th, 2014.
18. Invited Online Seminar Telecasted Live to Several (more than 20 campuses) University Campuses in India, Lecture at Amrita University, Ettimadai, Coimbatore, India on "Environmental Sustainability Issues with a Focus on How to Make Efforts to Have a Greener Campus", March 28th, 2014.
19. Invited Lecture at School of Business, Amrita University, Ettimadai, Coimbatore, India on "Waste Management as an Industry: Opportunities and Challenges for Innovation and Entrepreneurship" March 28th, 2014.
20. Invited Research Colloquium Seminar Presentation at Golisano Institute for Sustainability, Rochester Institute of Technology, NY, USA on "Overview of Electronic Waste Management Issues – Challenges and Opportunities" Oct 16th 2013.
21. Invited Presentation at the Perkin Elmer Inspiring INnovation Tour, Toronto, ON, on "Silver Nanoparticles Toxicity and the Role of Water Chemistry and Organic Ligands" April 4, 2013.

22. Invited Seminar Presentation at School of Earth, Biological and Environmental Science, Central University of Bihar, Patna, India on "Understanding the Role of Water Chemistry and Organic Ligands on the Nanoparticle Toxicity in Environment", May 3rd 2013.
23. Invited Seminar Presentation at Central Building Research Institute (CBRI), Roorkee, India, on "A Waste Management Oriented Life Cycle Perspective of Sustainable Building Material Selection", April 29th 2013.
24. Invited Seminar Presentation at Earth and Environmental Division, Indian Institute of Science, Bangalore, on "Environmental Nanotoxicology Issues of Engineered Nano-materials: Summary of Recent Research Efforts", August 13th 2012.
25. Invited Seminar Presentation at Indo-German Center for Sustainability, Indian Institute of Technology, Madras; in Chennai, on "Sustainable Resource Management: Issues and Challenges", August 9th2012.
26. Invited Seminar Presentation at Indian Institute of Technology, Kharagpur, on "Solid Waste Management Issues and Challenges: A Summary with a Case Study of E-Waste Management Issues", Organized by Society of Civil Engineering and Infrastructure, August 3rd2012.
27. Invited Seminar Presentation at Department of Civil Engineering, Indian Institute of Technology, Delhi, on "Environmental Nanotoxicology: Summary of Recent Research Efforts with Nanosilver and Other Example Nanoparticles," July 10th2012.
28. Invited Seminar Presentation at Indian Institute of Technology, Gandhinagar, on "Solid Waste Management Issues and Challenges: A Summary of Research Efforts with a Case Study of E-Waste Management Issues," June 19th 2012.
29. Invited Seminar Presentation at College of Public Health, Department of Preventive Medicine and Environmental Health, University of Kentucky, Lexington on "Assessing Environmental Risks from Emerging Waste Streams: Tools, Issues and Challenges" May 31, 2011
30. Invited Platform Presentation as part of ASCE Community Outreach on "Liquid Assets" Our Water Infrastructure. Presentation was focused on "Water Quality and Public Health Issues", April 20th 2011 at Johnson City, TN and May 26th 2011 at Bristol, VA.
31. Invited Seminar Presentation at Department of Civil Engineering, Kansas State University, Manhattan on "Simulated Landfills for Assessing the Leachate Quality Impacts from Co-Disposal of Electronic Waste" May 2, 2011.
32. Invited Seminar Presentation at College of Public Health, Division of Environmental Health Sciences, University of Massachusetts, Amherst on "Application of Environmental Engineering Tools in Environmental Public Health Issues: A Summary of Research Results" March 7, 2011.
33. Invited Seminar Presentation at College of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India on "Waste Management; Issues and Challenges in Assessing Beneficial Reuse and Disposal Options for Waste Materials" June 22, 2010.
34. Invited Earth Day Seminar Presentation at Colonial Hill Retirement Center, Johnson City, Tennessee on "Solid Waste Management: Current Status of Sustainable Initiatives by Waste Industry" April 22, 2010.
35. Invited Seminar Presentation at the Department of Civil and Environmental Engineering, University of Southern California (USC, Los Angeles) on "Impact of Surface Water Conditions on Preservative Leaching and Aquatic Toxicity from Treated Wood Products", February 6, 2009.
36. Invited Seminar Presentation at Division of Environmental Engineering and Science, National University of Singapore (NUS) on "Environmental Risks of Emerging Waste Streams", November 20, 2008.

37. Invited Seminar Presentation at AWRA Florida Chapter Meeting on Iron Research, April 14th, 2008.
38. Invited Seminar Presentation at Department of Civil and Environmental Engineering, University of Auckland on "Simulated Landfills for Assessing the Leachate Quality Impacts from Co-Disposal of Hazardous Constituents" October 8, 2007.
39. Invited Seminar Presentation at the Department of Civil Engineering, Indian Institute of Science, Bangalore on "Comparison of Environmental Impact of Wood Treated with Chromated Copper Arsenate (CCA) and Three Different Arsenic Free Preservatives", November 2006.
40. Invited Lecture Presentation on "Disposal Issues related to Pressure Treated Wood" to a class comprising high school students and teachers from various Gainesville, Florida schools; as a part of 2005, Summer Environmental Enrichment Program funded by NSF, July 15, 2005.
41. Invited Seminar Presentation at Department of Civil Engineering, Indian Institute of Technology (IIT), New Delhi, India on "Leaching Tests: A Tool for Risk Assessment in Solid Waste Management"; on April 20th , 2005.
42. Invited Presentation on "Disposal Issues for Preservative Treated Wood" at the Division of Cellulose Material, American chemical society (ACS) national 2005 spring meeting - 2005, San Diego, California March 13-17, 2005.
43. Invited Seminar Presentation at Department of Civil Engineering, Indian Institute of Technology (IIT), New Delhi, India on "Solid Waste Management: A US Perspective"; on Feb 13th, 2004.

Technical Reports

1. Dubey B. (2014). Life Cycle Analysis of Energy of Waste (EfW) facility proposed for Peel Region as part of Integrated Waste Management Plan-A preliminary study report, Submitted to Regional Municipality of Peel, Brampton, Ontario, Canada June 2014.
2. Kumar, D., Hait, S., and Dubey B., (2013). Occurrence, Fate and Removal of Emerging Contaminants in Surface Water, Project Report, Institutional Research Collaboration Development Grant, Submitted to Indo-Canadian Shastri Institute, Calgary Canada
3. Dubey, B., Fassman, E., (2009). "Performance Evaluation of Infiltration and Filtration Stormwater Management Practices." Prepared by University of Auckland (Auckland UniServices Ltd.) for Auckland Regional Council, Auckland, New Zealand.
4. Singhal, N., Dubey, B., Johnson, A., Swift, S., (2009). "Estrogenic Endocrine Disrupting Compounds – A Review of their Presence and Fate in Water and Sediments in New Zealand", Prepared by University of Auckland (Auckland UniServices Ltd.) for Auckland Regional Council, Auckland, New Zealand.
5. Dubey, B., Singhal, N., (2009). "Evaluation of Test Methods for Assessing the Environmental Risks from Road Marking Glass Beads", Final Report, Submitted to Britesite (NZ) Limited, Ramarama, New Zealand.
6. Dubey, B., (2009). "Background Information to Assist Preparation of a Proposal to Set up and operate a Plasma Co-generation Plant in New Zealand to Burn Waste to Produce Energy" Final Report, Submitted to A-ward Attachments Limited, Auckland, New Zealand.
7. Townsend, T., Dubey, B.,Ko, J., Kim, H., Cho, Y., (2008). "Landfilled Municipal Waste Characteristics in World Regions", Final Technical Report". Submitted to the *Caterpillar Inc.* Peoria, IL.
8. Rhue, R., Townsend, T., Dubey, B., Wang, Y., (2008). "Soils underneath Florida Landfills and their Role in the Occurrence and Fate of Iron and Arsenic in Groundwater, Final Technical Report". Submitted to the *Hinkley Center for Solid and Hazardous Waste*

Management, Gainesville, FL.

9. Townsend, T., Singh S, Dubey, B., (2007) "Research and Data Report for the Alachua County Southwest Landfill." Submitted to Alachua County Public Works Department, Alachua County, Florida.
10. Dubey, B., Townsend, T., (2007). "Biomass Resources Assessment Part II: Availability and Cost Analysis of Using Municipal Solid Waste Components as Alternative Fuel Sources for Power Generation, Final Technical Report". Submitted to *Gainesville Regional Utilities, Gainesville,* FL.
11. Dubey, B., Townsend, T., (2007). "Assessing Fate of Arsenic during the Management of Diseased Animal Wastes, Set of Notes". Submitted to *Sandra Cointreau, Solid Waste Management Advisor,* World Bank, Washington DC.
12. Townsend, T., Dubey, B., Cochran, K., Henry, S., (2007). "Government Policies for Encouraging Recycling of Construction and Demolition Debris" Submitted to *Clay County Solid Waste Division, Clay County,* Florida, USA.
13. Townsend, T., Dubey, B., Kim, H., Nepal, S., Laux, S., (2007). "Evaluation of Leachate Recirculation and Gas Collection Systems for Highlands County Landfill" Submitted to *Department of Solid Waste Management, Highlands County,* Florida, USA.
14. Townsend, T., Xu, Q, Dubey, B., Cochran, K., Jordan, A., (2007). "Research Advancing the Management of Construction and Demolition Debris in Florida, Final Technical Report". Submitted to the *Hinkley Center for Solid and Hazardous Waste Management, Gainesville,* FL.
15. Townsend, T., Xu, Q, Dubey, B., Abichou, T., (2007). "Use of Waste Materials to Reduce Emissions of Hydrogen Sulfide from Landfills to Attenuate Odors, Final Technical Report". Submitted to the *Hinkley Center for Solid and Hazardous Waste Management, Gainesville,* FL
16. Reinhart, D., Townsend, T., Dubey, B., Kim, H., Bonilla, V., Xu, Q., (2006). "Design and Operational Issues Related to Co-disposal of Sludges and Biosolids in Class-I Landfills, Final Technical Report (Phase-III)". Submitted to the *Hinkley Center for Solid and Hazardous Waste Management, Gainesville*, FL.
17. Solo-Gabriele, H., Townsend, T., Jacobi, G, Dubey, B., Eduardo, L., (2006). "Augmented Sorting of Recovered Wood Waste using Stain and X-ray technologies, Technical Report". Submitted to the *Florida Department of Environmental Protection, Tallahassee,* FL.
18. Solo-Gabriele, H., Townsend, T., Jacobi, G, Shibata, T., Dubey, B., (2005). "CCA-Treated Wood in Commercial Landscaping Mulch and Effects of Colorant on Metal Leaching Rates, Technical Report #0332003-05". Submitted to the *Florida Center for Solid and Hazardous Waste Managemen*t, Gainesville, FL.
19. Solo-Gabriele, H., Townsend, T., Durbin, M., Jacobi, G, Dubey, B., (2005). "Educational Outreach and Stain Distribution Project for Identifying Copper-Treated Wood, Technical Report #0232003-05". Submitted to the *Florida Center for Solid and Hazardous Waste Managemen*t, Gainesville, FL.
20. Townsend, T., Mutha, S., Ko, J., Pearson, B., Spalvins, E. and Dubey, B. (2004) "PBDE Flame Retardants in Florida: Import, Fate and Environmental Implications" Submitted to United States Environmental Protection Agency
21. Solo-Gabriele, H., Townsend, T., Khan, B., Song, J-K, Jambeck, J., Dubey, B., Jang, Y-C, (2003). "Arsenic and Chromium Speciation of Leachates from CCA-Treated Wood, Technical Report #03-07". Submitted to the *Florida Center for Solid and Hazardous Waste Managemen*t, Gainesville, FL.
22. Solo-Gabriele, H., Townsend, T., Sakura, D., Dubey, B., Jambeck, J., (2002). "Quantities of Arsenic within the State of Florida, Technical Report #03-06." Submitted to the

*Florida Center for Solid and Hazardous Waste Managemen*t, Gainesville, FL.

Other Studies/Reports

1. Experimental Investigation of Change in Solution pH within Concrete Pipes, Data report submitted to Water Care, Auckland, New Zealand, July 2009.
2. Municipal Solid Waste Treatment Using Thermal Technologies - Summary of Current Trends and Issues, Submitted to Citrus County Solid Waste Management Division, Lecanto, Florida, 2007.
3. Evaluation of Groundwater Issues for the Section 7 Lined Landfill Unit at the Hillsborough County Southeast Landfill, Report submitted to Jones Edmunds and Associates Inc., Gainesville, Florida, January 2006.
4. Analysis of Surface Coating Samples on Structures Scheduled for Demolition at the Kennedy Space Center, Report submitted to Jones Edmunds and Associates Inc., Gainesville, Florida, May 2004.
5. Comparison of Arsenic Concentrations in Recovered Screened Material and Soil Measured Using two Different Methodologies: Inductively Coupled Plasma – Atomic Emission Spectroscopy (ICP-AES) and Graphite Furnace Atomic Absorption Spectroscopy (GF-AAS), Report submitted to Sun Recycling, Dania Beach, Florida, August 2004.
6. Leaching of Milled Asphalt Pavement Amended with Waste to Energy Ash, Report submitted to Recyclable 100, Inc., Leesburg, FL 34749-0180, March 2003.
7. Data Report on RCRA Metal Analysis on Contaminated Soil Samples from Ft. Ord, CA, submitted to Concurrent Technologies Corporation, Largo, Florida, March 2003.
8. Leachability of Printed Wire Boards Containing Leaded and Lead-Free Solder, Report submitted to Abt Associates Inc. Cambridge, MA, August 2003.

Research Grants:

Applied for several research grants over last 10 years with a mix bag of success and failure. Below is a list of research grants which were successful applications.

Ongoing Projects

1. International Transport Forum (ITF) - Organisation for Economic Cooperation and Development (OECD), Paris, France; Development of Framework for Decarbonization of Transport Sector in India (PI), Budget: 29015 Euros
2. Alliance to End Plastic Waste and Circular Initiative, Singapore: Closing the Data Gap Challenge – Study of Plastic Pollution and Mitigation Measures in a Coastal City in India, (PI), Budget: 49500 (USD)
3. Department of Science and Technology, Govt of India as part of Indo-EU Horizon 2020 Project: Identifying Best Available Technologies for Decentralized Wastewater Treatment and Resource Recovery in Indian Context, (Co-PI), Budget: INR 93800000.
4. Aditya Choubey Centre for Re-Water Research focussed on Resource Recovery from Wastewater, Capillary Technologies, Co-PI, Budget: INR 20,000,000
5. Development of Indigenous Low-cost Soil and Sawdust Based Water Filters for Water Treatment and its Demonstration in Selected NSS Adopted Villages, IIT Kharagpur Student Challenge Grant, Co-PI, Budget: 10,00,000

Completed Projects

6. Advanced Materials Research Consortium, Canadian Foundation for Innovation, Budget Amount: CAD $998,959, (Co-PI, 33% - focused on recovery of materials from waste streams)
7. An Innovative Green Technology for Treating Municipal and Industrial Wastewater entering Rivers and Streams, Budget Amount: CAD 400,000 from IC-Impacts, Canada for

Canadian Partners, CAD 399,000 (Indian Rupees: 2,000,000) from Department of Biotechnology, India (Co-PI)

8. Energy from Waste Project, Peel Energy Recovery Centre – Long Term Waste Disposal Study; Region of Peel, Budget: CAD $12,000 (PI) – Consultant for an Overall LCA Study.
9. Characterization and Management of Construction and Demolition Waste in Canada - Foundation Document developed for Environment Canada; Kelleher Environmental, Toronto, Canada, CAD $10,000 – my fee - Part of the Team as an Expert Consultant
10. Treatment of Vegetable Wash-Water to Permit Water Recycling, Canadian Water Network-NSERC, Budget: CAD $136,800 (Co-PI)
11. Mine Waste Management – Hutti Gold Mines – Resource Recovery and Incorporation of Circular Economy Approaches in Mine Waste Management, Karnataka, India; PI, Budget: INR 50,00,000
12. Beneficial reuse risk assessment of waste materials including resource recovery, Innovative Research and Development Grant (MHRD), PI; Budget Amount: INR 25,24,000.
13. Study of Pollution Caused by Coal Based Thermal Power Plant (CBTPP) in Raigarh Region Chhattisgarh Environment Conservation Board, Co-PI; Budget Amount: INR 10,35,000
14. Pilot Demonstration Plant for Food Waste Resource Recovery – A Circular Economy Approach, Department of Science and Technology (DST) – Waste Management Program, PI, Budget: INR 1,95,00,000.
15. Technical Assistance to Guwahati Municipal Corporation on Design and Implementation of Integrated Waste Management Plan for the City (incorporating environmental risk assessment and life cycle concepts) as part of Clean India Mission, PI, Budget: INR 42,98,000
16. Techno Economic Feasibility Report for Setting up a Facility for Loading of Iron Ore Products, BKG, Haddinapade Iron Ore Mines, Co-PI, Budget: INR 28,32,000
17. Techno Economic Feasibility Study Report (TEFR) for setting up a facility for loading of iron ore products from a common take off point at the mines head in Ramgad range, Veerabhadrappa Sangappa and Company, Co-PI, Budget: INR 28,32,000
18. Fate and Transport of Binary Nanoparticles in a Sand Column, Science and Engineering Research Board (SERB), Co-PI, Budget: INR 19,20,000
19. Development of Indigenous Low-cost Soil and Sawdust Based Water Filters for Water Treatment and its Demonstration in Selected NSS Adopted Villages, IIT Kharagpur Student Challenge Grant, Co-PI, Budget: 10,00,000
20. Incorporating Sustainable Methods in Integrated Waste Management, Research Development Fund-UOG, Amount equivalent: CAD $40,000 (PI)
21. Beneficial Reuse of Waste Wheat Straw Ash, URA-NSERC, Amount equivalent: CAD $8,000 (PI)
22. Occurrence, Fate and Removal of Emerging Contaminants in Surface Water, Shastri Indo-Canadian Institute (Alberta), Budget Amount: CAD $ 18,000 (PI)
23. Environmental Risk Assessment from Nanosilver, State of Tennessee-Faculty Development Fund, Budget Amount: US $ 200,000 ($100,000 as Laboratory Development and $100,000 for PhD Student Support) (PI)
24. Development of an Approach to Assess the Impact of Agricultural Land Use Activities on Stream Water Quality Ontario Ministry of Environment, Budget: CAD $50,000 (Co-PI).
25. International Expert: Municipal Solid Waste Management and Institutional Strengthening for Environmental Sustainability-Country Project Nigeria, Programme for Implementation of Green Industry for POPs Pollution Prevention and Reduction United Nations Industrial Development Organization (UNIDO) United Nations, USD $ 25,000 (PI)

26. Undergraduate Research Experience Program, National Science Foundation, Budget: US $4000 (PI)
27. Evaluation of Fate and Transport of Manufactured Nano materials in Different Soil Matrix: A preliminary Study Faculty Research Development Fund, Auckland New Zealand, Budget: NZD 50,000 (PI)
28. Pollutant Accumulation in Stormwater Treatment Practices, Auckland Regional Council, Budget: NZD 45,000 (PI)
29. Project Development to Setup and Operate a Plasma Cogeneration Plant in Auckland Region for Waste to Energy, A-Ward Attachments Limited, Auckland, New Zealand, Budget: NZD: 15,000 (PI)
30. Experimental Investigation of Change in Solution pH Within Concrete Pipes, Water Care Services Limited, Auckland, New Zealand; Budget: NZD 30,000 (PI)
31. Evaluating Risks of Heavy Metals in Beneficial Reuse of Waste Glass Beads Britesite New Zealand Limited, Ramarama, New Zealand, Budget: NZD 16,000 (PI)
32. Teaching CAPEX in Environmental Engineering Faculty of Engineering, University of Auckland, Budget: NZD 60,000 (Co-PI)
33. Current Environmental Topics Related to Construction and Demolition Debris in Florida, Florida Department of Environmental Protection, Budget: USD $75,000 (Co-PI)
34. Technical and Economical Evaluation of Potential Use of Biomass as a Fuel Source for Power Plants, City of Gainesville, Budget: USD $ 45,000 (Co-PI)
35. Optimization of Gas Collection System at the Highlands County Bioreactor Landfill, Department of Solid Waste Management, Highlands County, Sebring, Florida, Budget: USD 45,000 (Co-PI)
36. Assessing Fate of Arsenic during the Management of Diseased Animal Wastes, World Bank-Solid Waste Management Division, Budget: USD $ 15,000 (Co-PI)

HQP Training

I have worked with several students as part of their PhD, Masters and UG (research) programs in addition to regular teaching activities. Here is a list of recently completed PhD students from my research group. In addition, presently I have 5 PhD students working in my group working on various projects listed above. More than 20 Masters Research students (including the present ones) have worked with me and so as nearly 40 UG students have got their research exposure working on various projects in our research lab. I enjoy working with these young researchers. In addition, I have served in several PhD thesis and external examiner for universities in Canada, Australia, Sweden, New Zealand and India.

Recently completed PhD projects from our research group

Name of PhD Student	**Year of Completion**	**PhD Thesis Title**	**Role**
Hari Bhakta Sharma	2021	Valorisation of Organic Fraction of Municipal Solid Waste by Hydrothermal Carbonization as a Solid Biofuel	Supervisor
Cheela V Ravi Sankar	2021	Sustainability Assessment of Waste Treatment Technologies – An Indian Case Study	Supervisor
Sagarika Panigrahi	2020	Pretreatment Strategies to Improve Biogas Yield from Lignocellulosic Biomass	Supervisor
Indrajit Chakraborty	2021	Reinventing Tertiary Treatment of Sewage using Biochar with a Focus on Removal of Complex Organic Compounds and Disinfection to Facilitate Safe Reuse	Joint Supervisor

Amit K Jaglan	2021	Resource Recovery and Sustainability Assessment of Residential University Waste Systems	Supervisor
Pubali Mandal	2021	Analysis and Modeling of Organics and Ammonia Removal from Landfill Leachate by Electro-Oxidation	Joint Supervisor
Lok R Pokhrel	2013	Evaluation of Colloidal Stability and Ecotoxicity of Metal-based Nanoparticles in the Aquatic and Terrestrial Systems	Supervisor