

**Name—Dr. Jiwan Singh**  
**Designation—Assistant Professor**  
**Department—Environmental Science**  
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### Education Qualification

	<b>Organization</b>	<b>Year of award</b>
<b>Undergraduate</b>	Dr. B. R. Ambedkar University Agra, U. P., India	2001
<b>Post-graduation (M.Sc.)</b>	Babasaheb Bhimrao Ambedkar University Lucknow, U. P., India	<b>2006</b>
<b>Post-graduation (M.Tech.)</b>	National Institute of Foundry and Forge Technology, Ranchi	<b>2010</b>
<b>Ph.D.</b>	Indian Institute of Technology Guwahati, Assam (IITG), India	<b>2013</b>
<b>Post-Doctoral Training</b>	University of Ulsan, South Korea	<b>2015</b>

### Professional Experience (In Years)

#### Teaching Experience:

1. Working as Assistant Professor at Department of Environmental Science, Babasaheb Bhimrao Ambedkar University, Lucknow-226025, from June 27, 2016 to present.
2. Worked as Assistant Professor at Department of Environmental Engineering, Kwangwoon University, Seoul, South Korea, from March 01, 2015 to June 24, 2016.

#### Research Experience:

1. Worked as Post-Doctoral Research Fellow at Department of Civil Engineering and Environmental Engineering, University of Ulsan, South Korea, from December 16, 2013 to February, 2015.

### Areas of Research (Maximum Five Bullet Points)

- Solid waste management; Composting; Vermicomposting; heavy metals study in the composting process
- Water and waste water treatment (adsorption, catalysis etc.)

- Remediation of soil pollutants; Phytoremediation;
- Recovery of heavy metals from solid waste;
- Synthesis and environmental applications of nanomaterial.

## Research/Consultancy Grants

Title of Projects	Funding Agency	Duration (Specific Dates)	Total grant	Role (PI/CO-PI)
Development of novel nano materials from waste materials and their applications for removal of inorganic and organic pollutants from the water and wastewater	UGC New Delhi	2017-2020	<b>9,31,668/-</b>	PI
Synthesis of low cost materials for the removal of arsenic and fluoride from the ground water and wastewater	SERB-DST New Delhi	2017-2020	<b>11,87, 230/</b>	PI

## Publications

### International

#### 2020

1. Sahu, N., Bhan, C., Singh, J., 2020, Removal of fluoride from an aqueous solution by batch and column process using activated carbon derived from iron infused *Pisum sativum* peel: characterization, Isotherm, kinetics study. *Environmental Engineering Research* (In press) (IF=1.438)
2. Bhan, C., Singh, J., 2020, Role of microbial lipases in transesterification process for biodiesel production. *Environmental Sustainability* (In press) Springer
3. Chowdhary, P., Sammi, S.R., Pandey, R., Kaithwas, G., Raj, A., Singh, J., Bharagava, R.N. 2020. Bacterial degradation of distillery wastewater pollutants and their metabolites characterization and its toxicity evaluation by using *Caenorhabditis elegans* as terrestrial test models. *Chemosphere* 261, 127689. (IF=5.778) *Elsevier (SCI)*
4. Siddique, A., Nayak, A. K., Singh, J. 2020. Synthesis of FeCl<sub>3</sub>-activated carbon derived from waste Citrus limetta peels for removal of fluoride: An eco-friendly approach for the treatment of groundwater and bio-waste collectively. *Groundwater for Sustainable Development* 10, 100339 (Scopus) *Elsevier*
5. Shukla, K., Verma, A., Verma, L., Rawat, S., **Singh J.**, 2020. A novel approach to utilize used disposable paper cups for the development of adsorbent and its application for the Malachite Green and Rhodamine-B dyes removal from the aqueous solution. *Nature Environment and Pollution Technology*, 19 (1), 57-70. (Scopus).
6. Yadav, N., Maddheshiaya, D. N. Rawat, S., Singh, J., 2020. Adsorption and equilibrium studies of phenol and para-nitrophenol by magnetic activated carbon synthesised from cauliflower waste. *Environmental Engineering Research* 25(5): 742-752, (IF=1.438)

## **2019**

7. Sahu, N., Rawat, S., **Singh, J.**, Rao Karri, R.R., Lee, S., Choi, J.-S. Koduru, J.R. 2019 Process optimization and modeling of methylene blue adsorption using zero-valent iron nanoparticle synthesized from the sweet lime pulp. **Applied Sciences**, **9(23)**, **5112**; <https://doi.org/10.3390/app9235112> (IF = 2.474).
8. Verma, L., Siddique, M. A. **Singh, J.**, Bharagav, R. N., 2019. As(III) and As(V) removal by using iron impregnated biosorbents derived from waste biomass of Citrus limmeta (peel and pulp) from the aqueous solution and ground water. **Journal of Environmental Management**, **250**, 109452 (Elsevier) (SCI) (IF = 5.647).
9. Verma, L., **Singh J.**, 2019. Synthesis of novel biochar from waste plant litter biomass for the removal of Arsenic (III and V) from aqueous solution: A mechanism characterization, kinetics and thermodynamics. **Journal of Environmental Management**, **248 (2019) 109235** (Elsevier) (SCI) (IF = 5.647).
10. Mishra, S., Yadav, S.S., Rawat, S., **Singh, J.**, Koduru, J.R., 2019. Corn husk derived magnetized activated carbon for the removal of phenol and para-nitrophenol from aqueous solution: interaction mechanism, insights on adsorbent characteristics, and isothermal, kinetic and thermodynamic properties. **Journal of Environmental Management** **246**, 362–373 (Elsevier) (SCI) (IF = 5.647).
11. Ibrahim, Mohd., Siddique, A., Verma, L., **Singh, J.**, Koduru, J. R. 2019. Adsorptive removal of fluoride from aqueous solution by biogenic iron permeated activated carbon derived from sweet lime waste **Acta Chimica Slovenica**, **66 (1)**, 123-136 (SCI) (IF=1.263).

## **2018**

12. Gautam A, Rawat, S., Verma, L., **Singh, J.**, Sikarwar, S., Yadav, B.C., Kalamdhad, A.S., 2018. Green synthesis of iron nanoparticle from extract of waste tea: An application for phenol red removal from aqueous solution. **Environmental Nanotechnology, Monitoring & Management** **10**, 377-387 (Elsevier) (Scopus).
13. Lingamdinne, L. P., Choi, J.-S., Yang, J.-K., Chang, Y.-Y., Koduru, J. R., **Singh, J.**, 2018. Adsorptive Removal of Selected Anionic and Cationic Dyes by Using Graphitic Carbon Material Prepared from Edible Sugar: A Study of Kinetics and Isotherms. **Acta Chimica Slovenica** **65 (3)**, 599-610 (SCI) (IF=1.263).
14. Ghosh, U., Hazarika, J., Kalamdhad, A.S., Khwairakpam, M., **Singh J.**, 2018. Speciation of trace metals (Cu, Zn, Ni, Fe and Mn) during rotary drum composting of paper mill sludge. **G- Journal of Environmental Science and Technology** **5(5)**: 61-68.
15. Lingamdinne, L. P., Choi, J.-S., **Singh, J.**, Chang, Y.-Y. Yang, J.-K. Karri, R. R., Koduru, J.R., 2018. Multivariate modelling via artificial neural network applied to enhance methylene blue sorption using graphene-like carbon material prepared from edible sugar. **Journal of Molecular Liquids** **265 (2018) 416–427**. SCI, Elsevier (IF=5.065).
16. **Singh, J.**, Chang, Y.-Y., Koduru, J.R., Yang, J.K., 2018. Potential Degradation of Methylene Blue (MB) by Nano-Metallic Particles: A Kinetic Study and Possible Mechanism of MB Degradation. **Environmental Engineering Research** **23(1):1-9** (Scopus) (IF=1.438).
17. Hazarika, J., Ghosh, U., Kalamdhad, A.S., Khwairakpam, M., **Singh J.**, 2018. Fractionation and reduction in bioavailability of toxic heavy metals during rotary drum composting of paper mill sludge. **Nature, Environment and Pollution Technology** **17 (3) 999-1004**. (Scopus)
18. **Singh, J.**, Lee, B. K. 2018. Effects of Nano-TiO<sub>2</sub> particles on bioaccumulation of 133Cs from the contaminated soil by Soybean (Glycine max). **Process Safety and Environmental Protection**, **116**, 301-311. (IF = 4.966).

## **2017**

19. **Singh, J.**, Kalamdhad, A., Koduru, J.R. 2017. Potential degradation of hazardous dye congo red by nano-metallic particles synthesized from the automobile shredder residue. *Nanotechnology for Environmental Engineering* 2, 1-10, (Springer, Scopus).
20. **Singh, J.**, Chang, Y.-Y., Koduru, J.R., Yang, J.K., Singh, D.P., 2017. The Rapid Fenton-like Degradation of Methyl Orange by Ultrasonically Dispersed Nano-Metallic Particles. *Environmental Engineering Research* 22(3): 245-254. (Scopus) (IF=1.438).
21. Hazarika, J., Ghosh, U., Kalamdhad, A.S., Khwairakpam, M., **Singh, J.**, 2017. Transformation of elemental toxic metals into immobile fractions in paper mill sludge through rotary drum composting. *Ecological Engineering*, 101, 185-192 (IF = 3.406) (Elsevier).
22. Lingamdinne, L. P., Chang, Y.-Y., Yang, J.K., **Singh, J.**, Choi, E.H., Shiratani, M., Koduru, J.R. Attri, P. 2017. Biogenic reductive preparation of magnetic inverse spinel iron oxide nanoparticles for the adsorption removal of heavy metals. *Chemical Engineering Journal*, 307, 74-84 (IF=8.355)
23. **Singh, J.**, Lingamdinne L.P., Chang, Y. Y., Yang, J.K., Lee, B. K., Koduru, J.R. 2017. Effect of pH values on recovery of nano particles (NPs) from the fine fraction of automobile shredder residue (ASR): An application of NPs for phenol removal from the water. *Process Safety and Environmental Protection*, 105, 52-59. (IF = 4.384). ISSN: 0957-5820 (Elsevier).
24. **Singh, J.**, Lingamdinne L.P., Chang, Y. Y., Yang, J.K., Koduru, J.R. 2017. Degradation and Mechanism of Methyl Orange by Nanometallic Particles Under a Fenton-Like Process. *Environmental Engineering Science* 34 (5), 350-356. (IF=1.575).
25. **Singh, J.**, Yang, J.K., Chang, Y. Y., Koduru, J.R. 2017. Fenton-like degradation of methylene blue by ultrasonically dispersed nano zero-valent metals. *Environmental Process* 4 (1), 169–182.

## **2016**

26. Reddy, K.J., Lingamdinne, L. P., **Singh, J.**, Choo K.-H. (2016). Effective removal of bisphenol-A (BPA) from water using a goethite/activated carbon composite. *Process Safety and Environmental Protection* 103, 87-96.(Elsevier). (IF = 4.384).
27. **Singh, J.**, Chang, Y. Y., Yang, J.K., Kang S.H., Reddy, K.J. (2016). Utilization of nano/micro-size iron recovered from the fine fraction of automobile shredder residue for phenol degradation in water. *Frontiers of Environmental Science and Engineering*, 10 (4), 1-7. (IF =3.883) ISSN 2095-2201
28. Roshan, S.W., Kalamdhad, A.S., **Singh, J.** (2016). The preferential composting of water fern and a reduction of the mobility of potential toxic elements in a rotary drum reactor. *Process Safety and Environmental Protection*, 102, 485-194 (Elsevier). (IF = 4.384).
29. **Singh, J.**, Yang, J. K., Chang, Y. Y. (2016). Synthesis of nano zero-valent metals from the leaching liquor of automobile shredder residue: A mechanism and potential applications for phenol degradation in water. *Process Safety and Environmental Protection*, 102, 204-213. (Elsevier). (IF = 4.384).
30. **Singh, J.**, Yang, J. K., Chang, Y. Y. (2016). Rapid degradation of phenol by ultrasound-dispersed nano-metallic particles (NMPs) in the presence of hydrogen peroxide: A possible mechanism for phenol degradation in water. *Journal of Environmental Management* 175, 60-66. (Elsevier) (SCI) (IF = 5.647) . ISSN: 0301-4797

31. **Singh, J.,** Lee, B. K. (2016). Influence of Nano-TiO<sub>2</sub> particles on the bioaccumulation of Cd in Soybean plants (*Glycine max*): A possible mechanism for the removal of Cd from the contaminated soil. *Journal of Environmental Management* **170**, 88-96 (Elsevier) (SCI) (IF = 5.647).
32. **Singh, J.,** Kalamdhad, A.S. (2016). Effect of lime on speciation of heavy metals during agitated pile composting of water hyacinth. *Frontiers of Environmental Science and Engineering*, **10** (1), 93-102. (Springer) (SCI). (IF =3.883)
33. **Singh, J.,** Reddy, K.J., Chang, Y. Y., Kang S.H., Yang, J.K., (2016). A novel reutilization method for automobile shredder residue as an adsorbent for the removal of methylene blue: mechanisms and heavy metal recovery using an ultrasonically assisted acid. *Process Safety and Environmental Protection* **99**, 88-97 (Elsevier). (IF = 3.441).
34. **Singh, J.,** Lee, B. K. (2016). Kinetics and extraction of heavy metals resources from automobile shredder residue. *Process Safety and Environmental Protection* **99**, 69-79 (IF = 4.384).
35. **Singh, J.,** Lee, B. K., (2016). Recovery of precious metals from low-grade automobile shredder residue: a novel approach for the recovery of nano zero-valent copper particles. *Waste Management* **48**, 353–365. (IF=5.431), ISSN: 0956-053X (SCIE) (Elsevier)
36. **Singh, J.,** Yang, J. K., Chang, Y. Y. (2016). Quantitative analysis and reduction of the eco-toxicity risk of heavy metals for the fine fraction of automobile shredder residue (ASR) using H<sub>2</sub>O<sub>2</sub>. *Waste Management* **48**, 374–382 (IF=5.431), ISSN: 0956-053X (SCIE) (Elsevier). (IF=4.723),

#### **2015**

37. **Singh, J.,** Lee, B. K. (2015). Hydrometallurgical recovery of heavy metals from low grade automobile shredder residue (ASR): An application of advanced Fenton process (AFP). *Journal of Environmental Management* **161**, 1-10. (Elsevier) (SCI) (IF = 5.647).
38. **Singh, J.,** Kalamdhad, A. S., Lee, B. K. (2015). Reduction of eco-toxicity risk of heavy metals in the rotary drum composting of water hyacinth: waste lime application and mechanisms. *Environmental Engineering Research* **20**, (3), 212-222. (IF=1.438). Publisher: Korean Society of Environmental Engineers (KSEE).
39. **Singh, J.,** Kalamdhad, A. S. (2015). Assessment of compost quality during water hyacinth collected from different sources. *International Journal of Recycling of Organic Waste in Agriculture* **4** (3), 175-183 (Springer).
40. **Singh, J.,** Lee, B. K. (2015). Reduction of environmental availability and ecological risk of heavy metals in automobile shredder residues. *Ecological Engineering* **81**, 76-81 (Elsevier) (SCI). IF = 3.406)
41. **Singh, J.,** Lee, B. K. (2015). Pollution control and metal resource recovery for low grade automobile shredder residue: A mechanism, bioavailability and risk assessment. *Waste Management* **38**, 271-283. (IF=3.829), ISSN: 0956-053X (SCIE) (Elsevier) (IF=5.431),

#### **2014**

42. Sarika, D., Prasad, R., **Singh, J.,** Vishan, I., Varma, V. S., Kalamdhad, A.S. (2014). Study of physico-chemical and biochemical parameters during rotary drum composting of water hyacinth. *International Journal of Recycling of Organic Waste in Agriculture* **3** (63) 1-10 (Springer) ISSN: 2251-7715.

43. **Singh, J.,** Kalamdhad, A.S. (2014). Uptake of heavy metals by natural zeolite during agitated pile composting of water hyacinth. *International Journal of Environmental Science* **5** (1), 1-15. ISSN: 0976-4402, Integrated Publishing Association.
44. Singh, W.R., Pankaj S.K., **Singh, J.,** Kalamdhad, A.S. (2014). Reduction of bioavailability of heavy metals during vermicomposting of phumdi biomass of Loktak Lake (India) using *Eisenia fetida*. *Chemical Speciation & Bioavailability* **26** (3), 158-168. (SCIE) (IF=1.362) (Taylor & Francis )
45. **Singh, J.,** Kalamdhad, A.S. (2014). Effects of natural zeolite on speciation of heavy metals during agitated pile composting of water hyacinth. *International Journal of Recycling of Organic Waste in Agriculture*, **3** (55), 1-17 (Springer) ISSN: 2251-7715,
46. **Singh, J.,** Kalamdhad, A.S. (2014). Effects of carbide sludge (lime) on bioavailability and leachability of heavy metals during rotary drum composting of water hyacinth. *Chemical Speciation & Bioavailability* **26** (2), 76-84. ISSN: 0954-2299. (Taylor & Francis) (SCIE)
47. **Singh J.,** Kalamdhad, A. S. (2014). Influences of natural zeolite on speciation of heavy metals during rotary drum composting of green waste. *Chemical Speciation & Bioavailability* **26** (2), 65-75 (IF=1.054) ISSN: 0954-2299. (Taylor & Francis) (SCIE)
48. Singh, W.R., Pankaj, S., **Singh J.,** Kalamdhad, A. S. (2014). Evaluation of bioavailability of heavy metals and nutrients during agitated pile composting of green Phumdi. *Research Journal of Chemistry and Environment* **18** (4), 1-8. E-ISSN No.: 2278 – 452. (SCIE)

### **2013**

49. **Singh, J.,** Prasad, R., Varma, V.S., Kalamdhad, A.S. (2013). Estimation of compost stability during rotary drum composting of municipal solid waste. *G- Journal of Environmental Science and Technology* **1** (1), 1-7. ISSN- 2322-0228.
50. **Singh, J.,** Kalamdhad, A.S. (2013). Effect of *Eisenia fetida* on speciation of heavy metals during vermicomposting of water hyacinth. *Ecological Engineering* **60**, 214-223.( Elsevier) (SCI) IF = 3.406)
51. **Singh, J.,** Kalamdhad, A.S. (2013). Effect of rotary drum on speciation of heavy metals during water hyacinth composting. *Environmental Engineering Research* **18** (3), 177-189., ISSN 1226-1025.
52. **Singh, J.,** Prasad, R., Kalamdhad, A.S. (2013). Effect of natural zeolite on bioavailability and leachability of heavy metals during rotary drum composting of water hyacinth. *Research Journal of Chemistry and Environment* **17** (8) 26-34 E-ISSN No.: 2278 – 452,
53. **Singh, J.,** Kalamdhad, A.S. (2013). Reduction of bioavailability and leachability of heavy metals during vermicomposting of water hyacinth (*Eichhornia crassipes*). *Environmental Science and Pollution Research* **20**, 8974–8985 ISSN: 0944-134 (Springer) (SCI) (IF=2.914)
54. Shankar, A., Singh, T.N., Uma, Banerjee, S., **Singh, J.,** Sharma, Y.C. (2013). Effect of Adsorption on Degradation of the Pesticide Aldicarb in the Soil. *International Review in Chemical Engineering* **5** (2) 88-101. Print ISSN: 2035-1755
55. **Singh, J.,** Kalamdhad, A.S. (2013). Chemical speciation of heavy metals in compost and compost amended soil -A review. *International Journal of Environmental Engineering Research* **2** (2) 27-37. ISSN print: 1756-8463,
56. **Singh, J.,** Kalamdhad, A.S. (2013). Effect of lime on bioavailability and leachability of heavy metals during agitated pile composting of water hyacinth. *Bioresource Technology* **138**, 148-155. (IF=6.6) ISSN: 0960-8524 (Elsevier) (SCI) (IF = 6.669)

57. Prasad, R., **Singh, J.**, Kalamdhad, A.S. (2013), Assessment of nutrients and stability parameters during composting of water hyacinth mixed with cattle manure and sawdust. *Research Journal of Chemical Sciences* 3 (4) 1-4. ISSN: 2250 – 9261
58. **Singh, J.**, Kalamdhad, A.S. (2013). Bioavailability and leachability of heavy metals during composting-A review. *International Research Journal of Environmental Sciences* 2 (4), 1-5. ISSN: 2319 – 1414,
59. **Singh, J.**, Kalamdhad, A.S. (2013). Bioavailability and leachability of heavy metals during water hyacinth composting. *Chemical Speciation & Bioavailability* 25 (1), 1-14. (IF=1.054) (Taylor & Francis ) (ISSN: 0954-2299. (SCIE)
60. **Singh, J.**, Kalamdhad, A.S. (2013). Assessment of bioavailability and leachability of heavy metals during rotary drum composting of green waste (Water hyacinth). *Ecological Engineering* 52, 59– 69 ( Elsevier) (SCI), IF = 3.406)
- 2012**
61. **Singh, J.**, Kalamdhad, A.S. (2012). Concentration and speciation of heavy metals during water hyacinth composting. *Bioresource Technology* 124, 169-179. (Elsevier) (SCI) (IF = 6.669)
62. **Singh, J.**, Kalamdhad, A.S. (2012). Reduction of Heavy Metals during composting- A review. *International Journal of Environmental Protection* 2 (9) 36-43. ISSN: 2226-6437 (Print)
63. **Singh, J.**, Uma, Banerjee, S., Sharma, Y.C. (2012). A very fast removal of Orange G from its aqueous solution by adsorption on activated sawdust: kinetic modelling and effects of various parameters. *International Review in Chemical Engineering* 4 (1), 1-7.
- 2011**
64. **Singh, J.**, Kalamdhad, A.S. (2011). Effects of Heavy Metals on Soil, Plants, Human Health and Aquatic Life. *International Journal of Research in Chemistry and Environment* 1 (2) 15-21. ISSN: 2248-9649
65. **Singh, J.**, Uma, Banerjee, S., Gusain, D., Sharma, Y.C. (2011). Equilibrium modelling and thermodynamics of removal of Orange G from its aqueous solutions. *Journals of Applied Sciences in Environmental Sanitation* 6 (3), 317-326. ISSN/EISSN: 01262807 19786980
66. **Singh, J.**, Mishra, N.S., Uma, Banerjee, S., Sharma, Y.C. (2011). Comparative studies of physical characteristics of raw and modified sawdust for their use as adsorbents for removal of acid dye. *Bio Resources* 6 (3), 2732-2743. (IF =1.396) ISSN: 1930-2126,

### **National-NIL**

Author/s (Year), Title, Name of Journals, Volume (Issue), Page no.

### **Book Chapters**

Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.

- 1.** Bhan, C., Verma, L., Singh J., 2020. ‘Alternative fuels for sustainable development’, in Shukla, Vertika, Kumar, Narendra (Eds.) *Environmental Concerns and Sustainable Development, Volume 1: Air, Water and Energy Resources* pp 317-331, **Springer nature** ISBN 978-981-13-5889-0.
- 2.** Rawat, S., Verma, L., Singh J., 2020. ‘Environmental hazards and management of E-waste’ in Shukla, Vertika, Kumar, Narendra (Eds.) *Environmental Concerns and Sustainable*

*Development, Volume 2: Biodiversity, Soil and Waste Management* pp 381-398. **Springer nature. ISBN 978-981-13-6358-0**

3. **Singh, J.**, Kalamdhad, A. S. 2018. ‘Effects of Heavy Metals on the Environment by Utilization of Urban Waste Compost for Land Application: A Review’, in Sarma, A.K., Singh, V.P., Bhattacharjya, R.K., Kartha, S.A. (Eds.) “*Urban Ecology, Water Quality and Climate Change*” volume 84, pp 329-340. (Springer, Part of the [Water Science and Technology Library](#) book series (WSTL) **Print ISBN 978-3-319-74493-3**
4. Koduru, J.R., More, N.S., Shiv Shankar, Shikha, Lingamdinne, L.P., Singh, J., 2017. “Toxic metals contamination in environments, their toxicological effects and bioremediation approaches for environmental cleanup” in Bharagava, R.N. *Environmental Pollutants and their Bioremediation Approaches*”, CRC Pres, Taylor & Francis Group, USA. ISBN 9781138628892 - CAT# K32053
5. **Singh, J.**, Kalamdhad, A. S., Lee, B. K. (2016). ‘Effects of Natural Zeolites on Bioavailability and Leachability of Heavy Metals in the Composting Process of Biodegradable Wastes’, in Belviso C. (Ed.) *Zeolites useful mineral*, ISBN 978-953-51-4826-5 (Chapter 10), Editor-Claudia Belviso; Publisher-In Tech., Janeza Trdine, Rijeka, Croatia - EUROPEAN UNION DOI: 10.5772/63679
6. **Singh, J.**, Kalamdhad, A. S., (2016). An Application of Lime to Reduce the Bioavailability of Heavy Metals in the Process of Composting. Book: **Global Progress In Development of Sustainable Environment** (published), Publisher-Discovery publishing House Pvt. Ltd. New Delhi, India

**Authored Books**

1. **Singh, J.**, Kalamdhad, A. S., 2018. Bioavailability, Leachability, Chemical Speciation and Bioremediation of Heavy Metals in the process of Composting. **CRC Press**. ISSN No. [9781138598331](#).

**Edited Books**

1. Kalamdhad, A.S., **Singh, J.**, Dhamodharan, K. 2019. Advances in Waste Management, Select Proceedings of Recycle 2016 **Springer Nature, Singapore**. (ISBN 978-981-13-0215-2)

Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.				

## Patents

	Inventors	Title and Award/Application no.
<b>Awarded</b>	Singh, J., Lee, B.K.	Method for recovering metal in solid waste, Patent no. <b>P15U23C1485</b> (Korean Patent), Ulsan University Academic Cooperation Agency ( 2-2005-014509-2), 2015
,	Singh, J., Lee, B.K.	Singh, J., Lee, B.K. (2015) Method for recovering copper in solid waste, Patent no. <b>P15U23C1487</b> (Korean Patent), Ulsan University Academic Cooperation Agency ( 2-2005-014509-2), 2015
<b>Published</b>		
<b>Filed</b>		



## Research Supervision

	Completed	Ongoing
<b>PG/M.Phil</b>	16	-
<b>Ph.D</b>	Nil	04
<b>Post-Doctoral</b>		

## Honors, Recognition and Awards

- Post-Doctoral Fellowship (Brain Korea Research 21), University of Ulsan, Ulsan, South Korea (from December, 2013 to February, 2015).
- Doctoral Fellowship by MHRD, Government of India from July 2010-December 2013.
- GATE (Graduate Aptitude Test of Engineering) Scholarship by MHRD, Government of India from August 2008- July 2010 (Score-437, All India rank-485, Year-2008).
- UGC National Eligibility Test (Environmental Science), 2013
- ICAR National Eligibility Test (Environmental Science), 2013
- Received “Environmental conservation award” in International seminar on Environmental Issues & Challenges in the 21<sup>st</sup> Century (EICC-2019) held at Bareilly College, Bareilly, U.P. India, from January 20-22, 2019.
- Reviewer of more than 20 reputed Journal
- Examined Ph.D thesis of Mr. C. Karthikeyan, CSIR-Central Electrochemical Research Institute, Karaikudi

## Membership of Professional Bodies

- The Institutions of Engineers, India, Associate member (MEMBCODE- AM1505249, RECSLNO- 130200622970), from October, 31 2013 to present.
- Korean Society of Environmental Engineers (Member no. 7351)
- Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES) (Member no. 201901) from (March 07-2016 to present)
- Life time member- Prof. H.S. Srivastava Foundation for Science and Society, Lucknow, India

## Seminar/Conference/Symposia /Workshops Organised

Please provide details wherein the faculty member has participated as a organizing Secretary

1. Organization of seminar on “ **A novel ideas on Environmental Management**” on June 5<sup>th</sup>, 2018 (World Environment Day, 2018) at Department of Environmental Science, BBAU, Lucknow.
2. Organizing secretary: Grassroots Innovation Summit & Exhibition (GrISE 2017), December 14-16, 2017

## Countries Visited

\* Republic of Korea

## **Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia /Workshops**

### **Invited Lectures**

1. Delivered Lecture on “**Contamination of ground water by Arsenic and Fluoride in India and its appropriate solutions**” in the RECYCLE 2020, 3<sup>rd</sup> International conference held at IIT Guwahati, from **13 to 14 February 2020**.
2. Invited Lecture on “**Physical and chemical examination of water and its sampling and preservation method**” in Certificate course in Pollution Monitoring: Air and water Pollution outsourced by CPCB, Lucknow, organized by CSIR-Indian Institute of Toxicological Research, Lucknow, from December 10<sup>th</sup> December, 2018 to 25<sup>th</sup> January, 2019.
3. Invited Lecture on “**Methods for measurement of Turbidity, odour, taste, colour, pH, electrical conductivity, total conductivity, total dissolved and suspended solids, acidity, and alkalinity**” organized by CSIR-Indian Institute of Toxicological Research, Lucknow, from December 10<sup>th</sup> December, 2018 to 25<sup>th</sup> January, 2019.
4. Invited Lecture on “**Recovery of heavy metals resource from electronic waste**” Workshop on “Environmental Hazards of Electronic waste” at Department of Environmental Science, BBA University, Lucknow on 13<sup>th</sup> March, 2019.
5. Invited Lecture on “**Transformation of organic waste biomass into compost**” in National workshop programme on “Solid waste management-reduce, reuse and recycle” held at Govt. Autonomous P.G. College, Chhindwara, M.P., India from 28 Feb. 2019 to 02 March, 2019.
6. Invited Lecture on “**Removal of Fluoride from drinking water by Adsorption Technology**” in International seminar on Environmental Issues & Challenges in the 21<sup>st</sup> Century (EICC-2019) held at Bareilly College, Bareilly, U.P. India, from January 20-22, 2019.
7. **Invited Lecture on “Hydrometallurgical recovery of valuable metals resource from the solid waste”**. RECYCLE 2018 2nd International Conference on Waste Management, held at IIT Guwahati, India during 22 - 24 February, 2018.
8. **Invited Lecture on “Transformation of heavy metals in the composting and vermicomposting process”**. **Lucknow Science Congress 2017**, held at BBA University, Lucknow from 3<sup>rd</sup> March to 4<sup>th</sup> March, 2017.
9. **Invited seminar on “Recovery of nano metallic particles from the Fine fraction of automobile shredder residue: An application for removal of water pollutants”** for regular seminar under **Brain Korea 21 Plus Program** at Department of Civil and Environmental Engineering, University of Ulsan, South Korea, held on June 21, 2016.
10. **Invited seminar on “Recovery of heavy metals from low grade automobile shredder residue (ASR): A reuse of ASR for removal of methylene blue (MB) from water”** for regular seminar under **Brain Korea 21 Plus Program** at Department of Civil and Environmental Engineering, University of Ulsan, South Korea, held on October 30, 2015.
11. **Invited Lecture on “Bioavailability and speciation of heavy metals in urban waste compost utilization for land application”**. **International Symposium on Environmental Solutions for Industrial Cities (ISESIC)**, held at Department of Civil and Environmental Engineering, University of Ulsan, South Korea, during 14-16 January 2014.

### **Chair**

Session Chaired in RECYCLE 2020, 3<sup>rd</sup> International conference held at IIT Guwahati, from **13 to 14 February 2020**

## **Additional Information (If Any)**

### **Other Relevant Information**

- SCOPUS **h- index -17**; citations-**958** (as on September, 2020)  
(<https://www.scopus.com/authid/detail.uri?authorId=55356980100>)
- Google Scholar: **h-index 22**, i10-index-**37**, citations-**1570** (as on September, 2020)  
(<http://scholar.google.com/citations?user=89rAq1QAAAAJ>)

### **Other official duties performing/performed:**

1. Coordinator- B. Tech. Civil Engineering, UIET, BBAU
2. Warden, Ashoka Boys Hostel, BBAU
3. Board of Post-graduate Studies, Babasaheb Bhimrao Ambedkar University, Lucknow, India