

## LIST OF PUBLICATIONS

### Book Chapter

1. Sumit Choudhary, Dheeraj Kumar, Manish Kumar Jain (2016), "Multi-Classifer Fusion for Land Use Land Cover Mapping in Jharia Coal Field" in book: Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment, pp. 773-777. [http://doi.org/10.1007/978-3-319-18663-4\\_119](http://doi.org/10.1007/978-3-319-18663-4_119).
2. Shiv Kumar Yadav, Manish Kumar Jain, Dinesh Kumar Patel (2018), "Monitoring of Air Pollution in Different Regions Along Road Network, Jharia Coalfield, Dhanbad, India" in book: Environmental Pollution, Water Science and Technology Library 77, PP 125-134, [https://doi.org/10.1007/978-981-10-5792-2\\_10](https://doi.org/10.1007/978-981-10-5792-2_10), Springer Nature Singapore Pte Ltd. 2018, V.P. Singh et al. (eds.)
3. Shweta Kumari, Manish Kumar Jain (2018), "A Critical Review on Air Quality Index" Environmental Pollution, Water Science and Technology Library 77, pp 87-102, [https://doi.org/10.1007/978-981-10-5792-2\\_8](https://doi.org/10.1007/978-981-10-5792-2_8), Springer Nature Singapore Pte Ltd. 2018, V.P. Singh et al. (eds.)
4. Ritesh Kumar, M Sunder Rajan, Sadanand Sharma, Manish Kumar Jain, "Coal Combustion Residues: Bulk Utilisation in Mining Areas amidst environmental Problems" in NexGen Technologies for Mining and Fuel Industries, ISBN : 978-93-85926-40-2, PP-1023-1032, Vol II

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1. Jain Manish Kumar, Saxena N.C., (2002) "Air Quality Assessment along Dhanbad - Jharia Road", in an International Journal "Environmental Monitoring and Assessment" Netherlands Vol. 79 Issue 3, November, 2002, pp-239-250. Springer, ISSN: 0167-6369, Citation-14, IF-1.592. (SCI, Thomson & Reuters and Scopus indexed). DOI: 10.1023/A:1020278610521.
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6. Arpita Das, Manish Kumar Jain, Gurdeep Singh, (2011) "Comprehensive Characterization of coal fly ash for beneficial utilisation towards environment" The Ecoscan, An International Quarterly Journal of Environmental Science, Vol 5 No. 3&4; ISSN: 0974-0376, pp 127-130., (Google Scholar). Citation-03
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  22. Avantika Chandra, Vipin Kumar, Manish Kumar Jain, (2015), “The Seasonal Changes in soil properties due to coal mine impacts” CarpathianJournalofEarthandEnvironmentalSciences,February,Vol10, No.1,pp241-248.ISSN(print):1842-4090,ISSN(online)-1844-489X, **(SCI,Thomson&Reutersand Scopusindexed)**.I.F.- 0.727
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  28. Avantika Chandra, Vipin Kumar, Manish Kumar Jain, (2016), “Impact of open cast coal mining on groundwater quality around Jharia coalfield area, India” Journal of Environmental Science and Engineering. ISSN 0367-287X **(ScopusIndexed)**(HIndex=19), SNIP-0.290, Vol 58, No-1, pp 65-72
  29. Radha Rani, Manish Kumar Jain, (2016). “Coal Combustion Product – Non Hazardous Material for Mine Fill” accepted for publication at Environmental Quality Management, ISSN: 1088-1913, Vol 23, No 4, PP- 107-119, John Wiley and Sons Inc. SJR-0.16, IPP-0.240, SNIP-0.303**(Scopus Indexed)**. DOI: 10.1002/tqem.21469.
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  32. Arpita Das, Manish Kumar Jain, (2017), “Impact of Mine Waste Leachates on Aquatic Environment: A Review” Current Pollution Reports **(Springer)**, Vol3, Issue1, PP31-37, ISSN: 2198-6592, DOI: 10.1007/s40726-017-0050-z. 9 **(Scopus indexed)**
  33. Radha Rani, Manish Kumar Jain, (2017), “Effect of Bottom Ash at Different Ratios on Hydraulic Transportation of Fly Ash During Mine Fill” at Powder Technology, ISSN: 0032-5910, Vol. 315, pp 309- 317, Impact factor- 2.759 **(SCI, Thomson & Reuters and Scopus indexed)**. <http://dx.doi.org/10.1016/j.powtec.2017.04.025>
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  39. Ray M., Usmani Z., Chandra A., Kumar V and Jain M. K. (2017). Bacterial diversity in mining and non-mining regions with emphasis on plant growth promoting traits. Chemistry and Ecology. Accepted. DOI: 10.1080/02757540.2017.1376663. (IF = 1.463). ISSN: 0275-7540. (SCI, Thomson & Reuters and Scopus indexed).
  40. Shruti Mishra, L B Chaudhary, M K Jain, Vipin Kumar, (2019), "Interaction of abiotic factor on soil CO<sub>2</sub> efflux in three forest communities in tropical deciduous" "Environmental Monitoring and Assessment" Netherlands Vol. Issue ., Springer, ISSN: 0167-6369, IF-1.592. (SCI, Thomson & Reuters and Scopus indexed).

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  5. Jain Manish Kumar (2010) "Application of Fly Ash in Mining Industry – A Critical Review" at 3rd Asian Mining Congress, Kolkata, 22-25, January 2010, pp 231-242.
  6. Arpita Das, Manish Kumar Jain, Gurdeep Singh, (2010) " Environmental Assessment and utilization of coal combustion residues of Durgapur Project Limited (DPL)" International Conference on Mother Earth save it from future generations, February, 13-15 at University of Burdwan, West Bengal, India
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  13. Manish Kumar Jain, Biswajit Paul (2012), "Assessment of status of underground Fire around a coke plant in Jharia Coalfields, India " at 9th International Mining History Congress, Johannesburg, South Africa, April 17-20, 2012.
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  10. Arpita Das, Manish Kumar Jain, Gurdeep Singh, (2011) " Comprehensive Characterization of Coal Combustion Residues with Particular Emphasis on Trace Elements Leaching" at All India Seminar on Advances in Mine Production and Safety organised by CIMFR, Dhanbad & Institution of Engineers Dhanbad chapter, August 26-27, pp 207-220
  11. Arpita das, Manish Kumar Jain(2012)," Sustainable Management of Coal Combustion By-products through appropriate utilization" at National Seminar on Environmental Concerns and Sustainable Development: Issues and Challenges for India, March 2-4, pp33.
  12. Arpita das, Manish Kumar Jain(2012),"Evaluation of long term leaching trend of ash from kathara captive thermal power plant, Jharkhand, India" at National Conference on Issues and Challenges of River Ganga Basin Management (ICRGBM-2012), March 26-28, pp52.
  13. Kumar N, Jain M K , (2016) , "A review on heavy metal concentration and its health risk assessment comparison" in national conference at NIT Raipur during 2016.
  14. Radha Rani, Manish Kumar Jain, (2016), "Coal Combustion Products: Indian Scenario" in National Conference on Sustainable Mining Practices at NIT Rourkela during December 2-3, 2016.

#### **Under Review**

1. Surajit Panda ; Manish Kr. Jain; A. T. Jeyaseelan, ""Image Spectral characteristics of Noamundi iron formations of Jharkhand: Implications on Grades wise hematite Deposits" accepted for review in Arabian Journal of Geosciences, AJGS-D-17-00554. ISSN: 1866-7511, Impact Factor- 1.224. **(SCI, Thomson & Reuters and Scopus indexed)**.
2. Krishnendu Banerjee; Manish Kr Jain "Landsat 8 OLI data for identification of copper mining area using Successive Band depth difference technique : A new image processing approach." Geocarto International, Tyler and Fransis. TGEI-2017-0099, **(SCI, Thomson & Reuters and Scopus indexed)**.
3. Krishnendu Banerjee; Manish Kr Jain.; Surajit Panda; Sarvesh Chandra Katiyar, "A Visualization of air quality status in some part of Singhbhum shear zone, Jharkhand" accepted for review in International Journal of Environmental Science and Technology" ISSN: 1735-1472, Impact factor-2.344. **(SCI, Thomson & Reuters and Scopus indexed)**.
4. Surajit Panda; Manish Kr Jain, "Assessment of air quality health Index: Status of ambient air quality for Noamundi mines and surrounding area, Jharkhand" accepted for review at International Journal of Environmental Science and Technology, ISSN: 1735-1472, Impact factor-2.344. **(SCI, Thomson & Reuters and Scopus indexed)**.
5. Shiv Kumar Yadav, Manish Kumar Jian (2018) , "Spatial distribution of Air Quality Index in Jharia Coalfield, Dhanbad, India" is cleared by reviewer at Atmosfera , ISSN: 0187-6236, Impact Factor-0.673 **(SCI, Thomson & Reuters and Scopus indexed)**.
6. Shiv Kumar Yadav, Manish Kumar Jian (2018) , "Air quality assessment, source apportionment studies and human health risks analysis of PM10 bound metals for typical Indian mining region" is under review at Journal of Environmental Management, ISSN: 0301-4797, Impact Factor-4.449 **(SCI, Thomson & Reuters and Scopus indexed)**.

#### **PAPER REVIEWED**

1. Characterization and Utilization of Coal Fly ash: A Review, EMR-D-18-00097, Emerging Materials

## Research

2. Effect of Fabrication Process and Binder on the Properties Of Fly Ash Aggregate (CCGP-D-18-00008).
3. The effects of transboundary air pollution following major events in China on air quality in the U.S.: Evidence from Chinese New Year and sandstorms (JEMA-D-17-03767)
4. Harnessing the Bio-mineralization Ability of Urease Producing *Serratia marcescens* and *Enterobacter cloacae* EMB19 for Remediation of Heavy Metal Cadmium (II)(JEMA-D-02956)
5. Spatial-temporal variations and mineral dust fractions in particulate matter mass concentrations in an urban area of northwestern China (JEMA-D-17-03880)
6. Optimization of HNO<sub>3</sub> leaching of Cu from old AMD athlon processors using response surface methodology(JEMA-D-17-02846)
7. Status of Particulate Matter pollution in India - A Review in Current Nutrition & Food Science (2017)
8. Daily PM<sub>2.5</sub> concentration prediction based on principal component analysis and LSSVM optimized by cuckoo search algorithm (JEMA -D-16-00642)
9. Magnetic Susceptibility as a Proxy for Pollution in Triveni-Bandel Area, Hooghly District, West Bengal, India (Current Science-17971)
10. Nitrogen Removal from Sanitary Landfill Leachate by Biological Nitrification and Denitrification: Assessment of Kinetic Parameters and Characterization of the Bacterial Communities,(JEMA-D-16- 00730)
11. Web Based Real Time Environmental Monitoring System for Underground Coal Mines Using Wireless Sensor Network with Wifi ZigBee Technology (International Journal of Mining and Mineral Engineering)
12. Spatial modelling of landscape aesthetic potential in urban-rural fringes. (JEMA-D-15-03359)
13. Advances and challenges of incorporating ecosystem services into impact assessment: Reviewing the environmental and social impacts of a mining project (JEMA-D-15-01239)
14. S reactivity of an oil sands composite tailings deposit undergoing reclamation wetland construction, (JEMA-D-15-00171)
15. Change detection in LULC using remote sensing & GIS, International Journal of Advancement in Remote Sensing, GIS and Geography (511-1457-RV.DOCX)
16. An Assessment of soil characteristics in the vicinity of Open Cast Coal Mine and its suitability for vegetative reclamation in Charhi and Kuju of Jharkhand, India (Journal of Environmental Biology- MRN/1002)
17. Inactivation of *Geobacillus stearothermophilus* spores by alkaline hydrolysis applied to medical waste treatment (JEMA -D-15-00590)
18. Organic fraction of municipal solid waste from mechanical selection: biological stabilization and recovery options. (JEMA-D-14-02520).
19. Characteristics of H<sub>2</sub>S emission from aged refuse after excavation exposure. (JEMA-D-14-02453).
20. Organic fraction of municipal solid waste from mechanical selection: biological stabilization and recovery options.(JEMA-D-14-02520)
21. Rapid and effective decontamination of chlorophenol-contaminated soil by sorption into commercial polymers: concept demonstration and process modelling. ( JEMA -D-14-01709)
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29. Evaluation of the Air Quality Benefits of the Subway System in São Paulo, Brazil.( JEMA-D-11- 01246R1), Journal of Environmental Management
30. The environmental impact of the Rodalquilar mining district in southeast Spain: pollutant spread, bioavailability, and phytotoxicity (JEMA-D-11-00306), Journal of Environmental Management
31. Study of boron behaviour in two spanish coal combustion power plants ( JEMA -D -11-00519), Journal of Environmental Management
32. Allocation of supplementary aeration stations in the chicago waterway system for dissolved oxygen improvement ( JEMA - D -10-00901) Journal of Environmental Management
33. .Log linear model for assessment of risk factors of occupational injuries in underground coal mines, (JGMR-09-016), Journal of Geology and Mining Research
34. Evaluation of the quality of a leachate produced at a landfill connected to an urban waste composting and

- recovery plant at alhendín (GRANADA, SPAIN), (JEMA-D-08-01099), Journal of Environmental Management
35. The Indian perspective of utilizing fly ash in phytoremediation, phytomanagement and biomass production (JEMA-D-08-00973), Journal of Environmental Management
36. Fly ash Management: An Indian Perspective (JEMA-D-08-00973), Journal of Environmental Management

### Monograph

S. No.	Name	Book	Total pages	Publisher
1	Fly Ash Status and Utilisation in India	Monograph	116	ENVIS centre on Environmental Problems of Mining funded by MoEF , ISSN 0972-4656

### MEMBER OF EDITORIAL TEAM

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5.	MINENVIS, Newsletter	60	March 2009	Environmental Issues with Best Management Practices of Responsible
6.	MINENVIS, Newsletter	64	March 2010	Suitability of Fly Ash as a Mine Void Fill Material – A Critical Review
7.	MINENVIS, Newsletter	65	June 2010	Mine Fires: Implications and Control Aspects
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9.	MINENVIS, Newsletter	69& 70	June & September 2011	Status of fire at Jharia coalfield
10.	MINENVIS, Newsletter	71	December 2011	Ground water problems
11.	MINENVIS, Newsletter	72	March 2012	Mine Waste
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14.	MINENVIS, Newsletter	75 & 76	December 2012 & March 2013	Environmental Aspects of Mining
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28.	MINENVIS, Newsletter	89	June 2016	Biodiversity of Mining Areas