

Name of Faculty Dr. Dudam Bharath Kumar

Designation Assistant Professor

Nature of Job/Appointment Regular

Date of Joining 30 - 11 - 2022

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dbharath.iitkgp@gmail.com



Education Qualifications

	Name of the Degree	Class
Ph. D.	Doctor of Philosophy (Civil Engineering)	Awarded
PG	M. Tech. (Environmental Engineering)	Distinction
UG	B. E. (Civil Engineering)	Distinction

Work Experience

Teaching	8 Years 5 months
Research	14 years 5 months
Industry	--
Others	--

Area of Specialization Environmental Engineering (Air quality modeling & management)

Professional Memberships Annual membership in Soft Computing Research tagged with enrolment number: 2025-02-17-1136526196 (Registered under the societies registration act XXI of 1860)

Responsibilities held at InstitutionLevel Coordinator, Industry-Innovation Cell (IIC) and Career Guidance Cell (CGC) from 01-12-2023

Responsibilities held at Department Level

1. Coordinator, NIRF& ARIIA from 15-12-2022 to till date.
2. Co-coordinator, Internship for 2nd year from 15-12-2022 to 01-07-2025.
3. Lab In-charge, Environmental Engineering Lab from 01-02-2024 till date.

Research Guidance Awarded 1 PhD thesis & 2 M. Tech theses.

Awards Received

1. Received the best researcher award from the Higher Education ICON Awards (HEICON - 2024) Knowledge Research Academy, Coimbatore, Tamil Nadu (An MSME Registered Organization), UDYAM-Tamil Nadu India-03-0021905

2. Bagged the best presentation award on the poster presentation of "Effect of Synergetic Interaction of Bio-Char and Stone Dust with Concrete" in the field of Environmental Applications/Structural Materials on the occasion of Novel Materials and Technologies for Energy Applications (NMTE2A) during on 17-18 February 2024, conducted by the Department of Chemical Engineering, BITS-Pilani, Hyderabad Campus, Hyderabad, Telangana, India.

3. Received the best presentation award for the paper titled "Climatology of NO₂ over eastern India using combined satellite- and ground-based environmental monitoring" at the International Conference on Emerging Technologies for Sustainable Future (ETSF-2025) from Central Research Foundation (CRF) during 26 & 27 April, 2025, Tamil Nadu India.

Courses Handled at Under Graduate / Post Graduate Level.

UG Level: Environmental Engineering, Surveying-I, Principles of Geographical Information System (GIS), Applications of Artificial Intelligence (AI) in Civil Engineering, Solid and Hazardous waste management (SHWM), Air and Noise pollution control, Water and Air quality modeling, Environmental Impact Assessment, Global warming and climate change, Environmental Engineering Lab, Computer Applications Lab, Professional Skills in Civil Engineering Lab, Solid Mechanics Lab; PG Level: Remote sensing and GIS, Remote sensing and GIS (RS&GIS lab).

No. of Papers Published

National Journals –	--	International Journals –	16
National Conference –	--	International Conference –	35

Technology Transfer

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Invited Speaker

As a Resource person delivered a talk on "Application of Statistics in Environmental Engineering" on 19 November 2024 (Thursday) organized by Department of Civil Engineering, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad in association with AICTE Idea Lab and Indian Concrete Institute, Hyderabad Centre during 14th November-5th December, 2023.

No. of Books/Chapters Published with details

Book Publications

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Book Chapter Publications

1. **Dudam, B.K.**, Mallikarjunarao, M., Naveen, G., Varma, J.R., Yathin, N. (2025). Effect of Wastewater on Concrete Curing and Mixing. In: Joseph, A., Madhu, G., K. S, E.B., Usha, S., P. E., K. (eds) Exploring Emerging Trends in Civil Engineering Volume 1. NCCE 2024. Lecture Notes in Civil Engineering, vol 737. Springer, Singapore. https://doi.org/10.1007/978-981-95-1491-5_23 (Scopus)
2. Rao, G.M., **Kumar, D.B.**, Srikanth, K., Nagaraj, M., Jagandas, S. (2025). Study on Strength and Durability Characteristics of Recycled Aggregate Used in Different Grades of Concrete. In: Joseph, A., Madhu, G., K. S, E.B., Usha, S., P. E., K. (eds) Exploring Emerging Trends in Civil Engineering Volume 1. NCCE 2024. Lecture Notes in Civil Engineering, vol 737. Springer, Singapore. https://doi.org/10.1007/978-981-95-1491-5_24 (Scopus)
3. **Dudam, B.K.** (2025). Improved Predictions of Aerosol Constituents with CALIPSO Satellite Observations Over East-Coastal City of India. In: Kurwadkar, S., Choudhary, R., Samui, P., Nanda, S. (eds) Recent Developments in Sustainable Infrastructure. ICRDSI 2023. Lecture Notes in Civil Engineering, vol 594. Springer, Singapore. https://doi.org/10.1007/978-981-96-5043-9_55 (Scopus)
4. Sasmita, S., **Dudam, B.K.** (2023). Study of Wastewater Treatment in Hindustan Coca-Cola Plant at Khurda. In: Mazumder, D. (eds) Sustainable Advanced Technologies for Industrial Pollution Control. ATIPEC 2022. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-37596-5_26 (Scopus)
5. **Kumar, D.B.**, Sushree, S. (2022). Testing the Skill of Hybrid Model Approach for Aerosol Estimates. In: Das, B.B., Hettiarachchi, H., Sahu, P.K., Nanda, S. (eds) Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—GEO-TRAENV-WRM. Lecture Notes in Civil Engineering, 207, Springer, Singapore. https://doi.org/10.1007/978-981-16-7509-6_23. (Scopus)
6. Sasmita, S., **Kumar, D.B.**, 2022. Monitoring of PM10 Aerosols in Outdoor Environment During Diwali Festival Over Bhubaneswar. In: Das, B.B., Hettiarachchi, H., Sahu, P.K., Nanda, S. (eds) Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—GEO-TRA-ENV-WRM. Lecture Notes in Civil Engineering, vol 207. Springer, Singapore. https://doi.org/10.1007/978-981-16-7509-6_67. (Scopus)
7. Sasmita, S., **Kumar, D. B.**, 2021. Seasonal variability of satellite-derived aerosol optical depth in smart city Bhubaneswar. (In Das, B, Barbhuiya, S, Gupta, R, Saha, P (eds) Recent Developments in Sustainable Infrastructure Lecture Notes in Civil Engineering, 75, Springer. (Scopus)

Details of Short-Term Training Programs / Faculty Development

1. Participated in One Week Online Faculty Development Programme (FDP) on "Data Analytics for Civil Engineering Research: Methods, Tools and Applications" held during 8-12 December, 2025 organized by Department of Civil Engineering, Mahatma Gandhi Institute of Technology (Autonomous), Gandipet, Hyderabad, Telangana.
2. Participated in the 5-day Online Faculty Development Program on "SMART MATERIALS AND TECHNOLOGIES FOR DURABLE STRUCTURES"(SMTDS'25), organized by the Department of Civil Engineering, R.V.R. & J.C. College of Engineering, (Autonomous), Chowdavaram, Guntur, Andhra Pradesh, India from 15-09-2025 to 19-09-2025.
3. Successfully completed Two Day National Faculty Training Workshop on 'Reviving Indian Knowledge Systems for Sustainable Development (IKSSD)' during April 12-13, 2025 organized by the Centre for Indian Knowledge Systems, CBIT, Hyderabad, India, sponsored by Indian Council of Social Science Research, Southern Regional Centre, Hyderabad.
4. Successfully participated on 5 days faculty development program titled "Artificial Intelligence and Machine Learning" held 15-19, September, 2025, Organized by Department of Computer Science and Engineering, Rajiv Gandhi University (A Central University) in association with Pantech e learning.
5. Participated in the Faculty Development Programme (Online Mode) on "Applications of soft Computing in Civil Engineering" held from 02/09/2024 to 06/09/2024 at Department of Civil Engineering, Vasavi College of Engineering, Hyderabad, Telangana, India.
6. Completed the online FDP on "NEP 2020 Orientation & Sensitization Programme" under Malaviya Mission Teacher Training Programme of University Grants Commission Organized by Malaviya Mission Teacher Training Centre, National Institute of Technology Warangal from 20-08-2024 to 28-08-2024.
7. Participated in 1-week offline workshop Introduction to Environmental Health and Air Pollution Epidemiology July 22-26, 2024, ICMR-Regional Medical Research Centre, Bhubaneswar, Odisha, India.
8. Participated in online faculty development program titled "Machine Learning Applications for Engineers" organized by the Department of Computer Science and Engineering at Chaitanya Bharathi Institute of Technology in Technical Association with ACM Hyderabad Deccan Chapter held from 3rd - 7th, June 2024.
9. Participated in One Week National Level Faculty Development on "Essential Mathematics for Data Science and Machine Learning". Organized by the Department of Artificial Intelligence and Machine Learning, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad – 500 075, Telangana, India, from 5th to 9th February 2024.
10. Participated in online workshop on "Advances in Smart Air Sensing & Emerging Control Technologies" organized by IIT Bombay on 3 July, 2024.
11. Participated in One Week National Level Faculty Development Programme on "Current Science in Science and Developments in Nanotechnology" organized by the Department of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous) in association with Microbiologists Society India (MBSI) from 29th January 2024 to 2nd February 2024.
12. Participated in online training course on "Repair and Rehabilitation of Structures of Hydro Power Projects" organized by C. W. & P. R. S., Pune during 13th– 14th December 2023.
13. Participated in 30 hours Live Training (FDP) Program on Python and IoT held From 7th Aug 2023 to 28th Aug 2023 organized by ExcelR Edtech Pvt. Ltd.
14. Participated in 5 Days online International Faculty Development Program on "NLP and ChatGPT APPLICATIONS" from 14th Aug to 19th Aug 2023 organized by SECAB Institute of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.

15. Participated in a three day In-house MATLAB training programme on "Simulink, HDL code generation, Medical Imaging, Optimization, Electric Vehicle, Machine & Deep Learning Toolboxes" from 03-05 July, 2023 organised by Department of ECE and EEE, Chaitanya Bharathi Institute of Technology (A), Hyderabad. (offline)
16. Participated in 30 Hours International Faculty Development Program on "Deep Learning for NLP and Computer Vision" from 10-28 July, 2023 organized by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR.
17. Participated in a one week national level faculty development programme on "Recent Trends in Data Science for Engineering" from 26-30 June, 2023 organised by Department of Information Technology, Chaitanya Bharathi Institute of Technology (A), Hyderabad in association with CBIT IEEE-Robotics and Animation Society (RAS) student branch chapter.
18. Participated in 5-day's online International Faculty Development Program on "Data Analyst" from 19-23 June, 2023 organised by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with ExcelR.
19. Participated in Two-day Faculty In House Training/Induction Program held on 11th & 18th March, 2023 organized by IQAC cell CBIT(A), Hyderabad,
20. Participated in Five day online Faculty Development Program on "Current Research Trends in Field of Civil Engineering" from 16-20 January, 2023 organised by Department of Civil Engineering in association with Academic Staff College, OP Jindal University.

International/National Journals

1. Babu, P., Verma, V., Khadanga, Shailendra Kumar Yadav, **Dudam Bharath Kumar** & Ayushi Gupta, 2024. Exploring the association between air pollution and spontaneous abortion through systematic review and bibliometric analysis. *Air Qual Atmos Health* (2024). (Q2, SCI, Impact Factor: 5.8) <https://doi.org/10.1007/s11869-023-01491-1>
2. Sasmita S., **Kumar D. B.**, Babu, P., (2022). Assessment of sources and health impacts of PM10 in an urban environment over eastern coastal plain of India, *Environmental Challenges*, 7, 100457. (Scopus, Cite Score:3.8)
3. Sasmita, S., **Kumar, D.B.**, (2022). Retrieval of Aerosols Extinction Coefficient from CALIPSO Satellite Observations: a case study over Bhubaneswar. *IOP, Earth and Environmental Science*, 1032 012041. (Scopus, Impact Score: 2.88)
4. **Dudam Bharath Kumar**, S. Verma (2016), Potential emission flux to aerosol pollutants over Bengal Gangetic plain through combined trajectory clustering and aerosol source fields analysis, *Atmos. Res.*, 178-179, 415-425. <http://dx.doi.org/10.1016/j.atmosres.2016.04.012> (Q1, SCI, Impact Factor: 5.5)
5. **Dudam Bharath Kumar**, Shubha Verma, Olivier Boucher and Rong Wang (2018), Constrained simulation of aerosol species and sources during pre- monsoon season over India Subcontinent, *Atmos. Res.*, 214, 91-108. <http://dx.doi.org/10.1016/j.atmosres.2018.07.001> (Q1, SCI, Impact Factor: 5.5)
6. Manish Kumar, K. Parmar, **Dudam Bharath Kumar**, A. Mhawish, D. M. Broadley, R. K. Mall and T. Benarjee (2018), Long-term aerosol climatology over Indo- Gangetic Plain: Trend, prediction and potential source fields, *Atmos. Environ.*, 180, 37-50. <http://dx.doi.org/10.1016/j.atmosenv.2018.02.027> (Q1, SCI, Impact Factor: 5.0)
7. Verma, S., B. Priyadarshini, S. Pani, **D. B. Kumar**, A. Faruqi, S. Bhanja, and M. Mandal (2016), Aerosol extinction properties over coastal West Bengal Gangetic plain under inter-seasonal and sea breeze influenced transport processes, *Atmos. Res.*, 167, 224-236. <http://dx.doi.org/10.1016/j.atmosres.2015.07.021> (Q1, SCI, Impact Factor: 5.5).
8. Verma, S., D. Manigopal Reddy, S. Ghosh, **D. Bharath Kumar** and A. Kundu Chawdhury (2017),

Estimates of spatially and temporally resolved constrained black carbon emission over the Indian region using a strategic integrated modelling approach, Atmos. Res. 195, 9-19.(Q1, SCI, Impact Factor: 5.5)

9. Verma, S., Olivier Boucher, S. Ghosh and **Dudam Bharath Kumar** (2018), Data for: Dataset of pre-monsoon aerosol species optical depth and concentration estimated from constrained simulation approach over the Indian subcontinent, Data-in-Brief, Mendeley Data, v1. <http://dx.doi.org/10.17632/3f27kndz44.1> (Q1, Scopus & ESCI, Impact Factor: 1.2)

International/National Conferences

1. Tharun Teja, A., **Bharath Kumar Dudam**, B. Priyanka, S. Sneha, A. Ravi Prasad, Synthesis of silver nanoparticles by using *Cassia Auriculata* flower extract: a batch study, International Conference on Chemistry and Sustainability: Pathways to Achieve the SDGs, Graphic Era Deemed to be University Dehradun, Uttarakhand, India, 11-12 December, 2025,
2. **Dudam, B. K.** and Sasmita, S., Climatology of NO₂ over Eastern India using combined Satellite- and Ground-based Environmental Monitoring, International Conference on Emerging Technologies for Sustainable Future (ETSF-2025), 26-27 April, 2025.
3. **Dudam, B. K.**, Modelling of Outdoor Air Quality for Source Fields in an Urban Environment: A Case Study of Bhubaneswar, 7th International Conference on Modeling and Simulation (ICMSC) in Civil Engineering organised by the Department of Civil Engineering, TKM College of Engineering, Kollam, 5-7 December, 2024.
4. **Dudam, B. K.**, Mallikarjunarao, M., Naveen, G., Varma, J.R., Yathin, N. Effect of Wastewater on Concrete Curing and Mixing, 39th National Convention of Civil Engineers in association with Institute of Engineers India (IEI) Kochi Chapter, 17-18 October, 2024.
5. Rao, G. M., **Bharath Kumar, D.** & Srikanth, K., Study of strength and durability of recycled aggregates used in different grades of concrete at the 39th National Convention of Civil Engineers in association with Institute of Engineers India (IEI) Kochi Chapter, 17-18 October, 2024.
6. **Dudam Bharath Kumar**, P. Nithin Varma, K. Mahitha, D. Harshith Reddy, Prediction of air pollution from constrained air quality model and machine learning techniques, International Conference on Waste Recycling and Environmental Technology (WRET-2024), February 2024.
7. Sushree Sasmita, **Dudam Bharath Kumar**, Rashmi Ranjan Behera, Priyadarshini Babu, Health risk analysis of particle-bound metals in using Air-Q+ model during Diwali festival in a smart city Bhubaneswar, International Conference on Waste Recycling and Environmental Technology (WRET-2024), February 2024.
8. Jayadeep, B., Angshuman Das, **Dudam Bharath Kumar**, Assessment of Water Quality Index (WQI) and Pollution Mapping of Pashmalyam Lake of Patancheru Industrial Belt Hyderabad, International Conference on HYDRO 2023 INTERNATIONAL, NIT Warangal, December 2023.
9. Angshuman Das, **Bharath Kumar Dudam**, Koteswaraarao Jadda, Sai Vamsi Vinukonda, Nikitha Godisela, Improvement of Hydraulic and Aggregate Properties of Locally Available Lump Soil Using Rice Husk Ash and Lime, International Conference on Geotechnical Advances In Sustainable Infrastructure Development And Risk Reduction, IIT Roorkee, India, December 2023.
10. **Dudam Bharath Kumar**, Classification of air-mass trajectories using artificial intelligence technique: Fuzzy c-mean Clustering, International Conference on Robotics and Cyber Physical Systems (ICRCPS 2023)", Chaitanya Bharathi Institute of Technology (A), Hyderabad, Telangana, India, April, 2023.
11. **Dudam Bharath Kumar** and Sushree Sasmita, Improved predictions of aerosol constituents with CALIPSO satellite observations over east-coastal city of India, 3rd International Conference on Recent Development of Sustainable Infrastructure (ICRDSI), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, March 2023.
12. Sushree Sasmita and **Dudam Bharath Kumar**, Sources and health risk assessment of nitrogen dioxide (NO₂) over eastern India, 3rd International Conference on Recent Development of Sustainable Infrastructure (ICRDSI), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, March 2023.
13. Sushree Sasmita and **Dudam Bharath Kumar**, Study of Wastewater Treatment in Hindustan Coca-Cola plant at Khurda, 3rd International Conference on Advanced Technologies For Industrial Pollution Control (ATIPC-2022), Indian Institute of Engineering Science and Technology, Shibpur Howrah - 711103, West Bengal, India, December 2022.
14. **Dudam Bharath Kumar** and Sushree Sasmita, Testing the Skill of Hybrid Model Approach for Aerosol Estimates, 2nd International Conference on Recent Development of Sustainable Infrastructure (ICRDSI), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, December 2020.

15. Sushree Sasmita and **Dudam Bharath Kumar**, Monitoring of PM₁₀ Aerosols in Outdoor Environment during Diwali Festival over Bhubaneswar, 2nd International Conference on Recent Development of Sustainable Infrastructure (ICRDSI), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, December 2020.
16. Sushree Sasmita and **Dudam Bharath Kumar**, Seasonal Variability of Satellite-Derived Aerosol Optical Depth in Smart City, Bhubaneswar, International Conference on Recent Development of Sustainable Infrastructure (ICRDSI), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, December 2019.
17. **Dudam Bharath Kumar** and S. Jayalekshmi, Study on Effect of Temperature on Adsorption of MSW Leachate, International Conference on Sustainable Waste Management (IconSWM), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, November 2019.
18. **Dudam Bharath Kumar**, Study on Improvement of Strength in Weak Soil using Rice-Husk, International Conference on Sustainable Waste Management (IconSWM), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, November 2019.
19. Bittu Ghosh, **Dudam Bharath Kumar**, Mohibulla, Role of GHG Emissions from Livestock Waste Contributing to Climate Change over India: A short review, International Conference on Sustainable Waste Management (IconSWM), Kalinga Institute of Industrial Technology (KIIT) deemed to be university, Bhubaneswar, India, November 2019
20. **Dudam Bharath Kumar**, Satellite based observations for Surface level Urban Heat Island over Bhubaneswar: A case study, 5th International Conference on Countermeasures to Urban Heat Islands (IC2UHI), International Institute of Information Technology - Hyderabad, India, December 2019. doi: 10.37285/bsp.ic2uhi.13
21. Sukanya Dasgupta, Nilanjana Roy, **Dudam Bharath Kumar**, Use Urban Green as a Mitigation Strategy to Combat Urban Heat Island Effect: A Case of Puri-Cuttack Road, Bhubaneswar, Odisha, 5th International Conference on Countermeasures to Urban Heat Islands (IC2UHI), International Institute of Information Technology - Hyderabad, India, December 2019. doi:10.37285/bsp.ic2uhi.43
22. **Dudam Bharath Kumar**, S. Sushree and H. Kumar, Analysis of seasonal variation and sources of PM₁₀ aerosols over eastern coast of India, International Conference of China India Association for Atmospheric Scientists (CIAAS), IIT- Delhi, New Delhi, India, March 2019.
23. **Dudam Bharath Kumar**, Sasmita Sushree (2018), Sources and Characteristics of Aerosol over Smartcity Bhubaneswar in Winter and Summer, Bulletin of Indian Aerosol Science and Technology Association (IASTA), New Delhi, India, November 2018, 23 (1&2) 603.
24. **Dudam Bharath Kumar**, S Choudhary, Episodic Analysis of Biomass Burning Aerosols over east-coast India: Effect of Regional and Long-range Transport, International Conference on Atmospheric Composition and Climate Change (ICACCCA) conference, Malaysia, March 2018.
25. Manish Kumar, K. Parmar, **Dudam Bharath Kumar**, Alaa Mhawish, T. Benerjee, Long term aerosol climatology over Indo-Gangetic Plain on Asian Aerosol Conference (AAC), Seoul, South Korea, July 2017.
26. **D. Bharath Kumar**, S. Verma, O Boucher, R Wang, Constrained simulations of aerosol constituents and their sources of origin over Indo-Gangetic basin on UPCAR conference, Tirupati, Andhrapradesh, June 2017.
27. **Dudam Bharath Kumar**, S. Verma, I. Chakraborty, Constrained aerosol simulation of sources, chemical and optical properties of winter time aerosol pollution over India on AC3 Conference, Darjeeling, West Bengal, April 2017.
28. S. Verma, **D. Bharath Kumar**, O Boucher, R Wang, Improved prediction of aerosol optical and chemical properties over Indian subcontinent from Page 4 of 5 constrained aerosol simulation: implication to radiative effects on AC3 Conference, Darjeeling, West Bengal, April 2017.
29. **Dudam Bharath Kumar** and Shubha Verma, Simulations of aerosol constituents and their sources of origin over Indo-Gangetic plain (IGP) to Himalayan foothills: a new perspective of GCM estimates in American Geophysical Union (AGU) Conference, San Francisco, United States of America, December 2016, ID– 171023.
30. Indrajit Chakraborty, Shubha Verma, and **D. Bharath Kumar**, Black carbon induced glacial melt runoff prediction using validated modelled estimates at Himalaya-Hindu Kush region in American Geophysical Union (AGU) Conference, San Francisco, United States of America, December 2016, ID–175075.
31. Shubha Verma, Mani Gopal Reddy, and **Dudam Bharath Kumar**, Evaluating the latest estimates of spatially and temporally resolved gridded black carbon emission over Indian region in a

strategic integrated modeling approach in American Geophysical Union (AGU) Conference, San Francisco, United States of America, December 2016, ID-182643.

32. **Dudam Bharath Kumar**, S. Verma (2016), Evaluation of aerosol constituents from restrained simulations in general circulation model over India, Bulletin of Indian Aerosol Science and Technology Association (IASTA), 22 (1 & 2) 349-351.
33. I. Chakraborty, S. Verma and **D. Bharath Kumar** (2016), Prediction of black carbon deposition and corresponding melt runoff over snow packed regions of the Himalayas in Indian Aerosol Science and Technology Association (IASTA) Conference, Ahmedabad, December 2016, 22 (1 & 2) 663-666.
34. **Dudam Bharath Kumar** and Shubha Verma, Combined trajectory clustering and aerosol fields analysis to evaluate the potential emission flux to aerosol pollutants in an urban and semi-urban atmospheres in eastern India in American Geophysical Union (AGU) Conference, San Francisco, December 2015, A21A- 0093.
35. Sanjeev Dasari, Shubha Verma, **D. Bharath Kumar**, Olivier Boucher, In A general circulation model study of impact of black carbon aerosols over Hindu Kush-Himalayan (HKH) sites: implications on glacier snow melt processes and cryospheric change on International Glaciological Society (IGS) Conference, Kathmandu, March 2015, 71A1417.
36. **Dudam Bharath Kumar**, Y. Akhila, S. Verma (2014). Analysis of sensitivity of black carbon aerosol properties using a novel emission optimization approach, Bulletin of Indian Aerosol Science and Technology Association (IASTA), 21 (1 & 2), 327-328.
37. **Dudam Bharath Kumar**, S. Verma (2014), A Novel Source-Receptor Analysis of Winter Monsoon Aerosols over Eastern India, Bulletin of Indian Aerosol Science and Technology Association (IASTA), 21 (1 & 2), 324-326.
38. **Dudam Bharath Kumar** and Shubha Verma, Sensitivity of Absorbing Aerosol Parameters using Novel Optimization Approaches over India main-land on 8th Asian Aerosol Conference (AAC), Sydney, December 2013, B-37.
39. B. Priyadarshini, **D. Bharath Kumar**, S. Verma, Impact of biomass burning on the seasonal variability of aerosol optical characteristics over an outflow region into Bay of Bengal on 8th Asian Aerosol Conference (AAC), Australian Technology Park, Sydney, December 2013.
40. **Dudam Bharath Kumar** and Shubha Verma (2012). Validation of aerosol properties from Tiger-z IOP measurements with GCM simulations, during pre- monsoon over Kanpur, Bulletin of Indian Aerosol Science and Technology Association (IASTA), 20 (1 & 2), 360-364.

INSTITUTE OF TECHNOLOGY

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