

Dr. B. VIJAY BHASKAR

ASSISTANT PROFESSOR

Department of Bioenergy

School of Energy, Environment and Natural Resources

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Educational Qualifications : M.Sc. Ph.D.

Professional Experience : 12 Year

FIELD OF SPECIALIZATION

- Atmospheric aerosols monitoring and modelling
- Biomass gasification

RESEARCH SPECIALIZATION

- Measurement and estimation of black carbon aerosol radiative forcing
- Modeling the radiative and climate impact of aerosols
- Performance of biomass Gasifiers

Research Supervision:

Program	Completed	Ongoing
Ph.D	3	1
M.Phil	5	-

PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1.	Madurai Kamaraj University	Assistant Professor	18.03.2010	Till to date	10 years
2.	Indian Centre for Climate and Societal Impact Research, Ahmedabad, Gujarat	Assistant Professor	10.11.2009	15.03.2010	4 months
3	Indian Centre for Climate and Societal Impact Research, Ahmedabad, Gujarat	Research Associate	03.10.2008	09.11.2009	1 Year & 1 month

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Prof. S. Ramachandran	Physical Research Laboratory	Aerosol Research studies	Research and Paper
Dr. Amit. P. Kesarkar	National Atmospheric Research Laboratory	Climate Modelling	Research

COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1.	A study on aerosol measurement and its impact on urban climate	UGC	6.79	2012-2015
2.	An investigation on black carbon measurements and its impacts on meteorology in different climatic regions	SERB	44.30	2013-2017

ON-GOING RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant in Lakhs	Year
1.	An Investigation to comprehend the Black carbon aerosol: A sink for Carbon-dioxide	SERB	25.77	2019-2022
2	Integrated Resource Centre for Environment Climate Change and Biodiversity (IRCECCB)	UGC-STRIDE	100.0	2020-2023
3.	An Investigation to comprehend the atmospheric aerosol morphology, mixing state variation in different environmental regions	RUSA	33.84	2020-2022

HONORS/AWARDS/RECOGNITIONS

- Raman Fellowship, 2016, University Grants Commission
- Appreciation Award, 2017, Madurai Kamaraj University
- Summer Research Fellowship, 2019, Indian Academy of Science

PUBLICATIONS (selected)

- V. Karthik, **Vijay Bhaskar, B.** A systematic approach to comprehend the role of atmospheric black carbon in different environmental segments: A review *Aerosol Science and Engineering*
- V. Karthik, **Vijay Bhaskar, B.** Growth Characteristics of Bean (*Phaseolus vulgaris* L.) Plant Exposed to Black Carbon under Different Environmental Conditions) *Pollution research*
- Rajeshkumar, R.M., **Vijay Bhaskar, B.** Muthuchelian, K., Study on diurnal and seasonal black carbon and aerosol optical depth variation over a semi-arid region Madurai, Southeastern India, *Vayumundal*, 45 (1), 2019.
- **Vijay Bhaskar**, Rajeshkumar, Characteristics of black carbon aerosol at an Educational site in Southern India, *Environmental Asia*, 12 (1), 108-119, 2019
- **Vijay Bhaskar**, Rajeshkumar, Muthuchelian, Spatial, Temporal and source study of carbonaceous aerosols over different altitude regions in Southern India, *Journal of Atmospheric and Solar-Terrestrial Physics*, 179, 416-424, 2018.
- **Vijay Bhaskar**, Rajeshkumar, Muthuchelian, An emission inventory based study on black carbon aerosols produced during biomass burning, *Aerosol Science and Engineering*, Springer Publication, 1-12, 2018
- Seshapriya Venkitaswamy and **Vijay Bhaskar, B.** "Measurement of carbon dioxide and detailed emission inventory preparation from different sources over Madurai, India." *Environment Conservation*. 2018.
- Seshapriya Venkitaswamy and **Vijay Bhaskar, B.** "Emission Inventory – A Preliminary Approach to Primary Pollutants". *Current Science*. Vol III, 2016.
- Seshapriya Venkitaswamy and **Vijay Bhaskar, B.** "Relationship between ozone with nitrogen dioxide and climatic impacts over major cities in India". *Sustain. Environ. Res.*, 25(6), 2015.
- Indira, G., **Vijay Bhaskar, B.**, Muthuchelian. "The effect of aerosol optical depth on rainfall with reference to meteorology over metro cities in India". *Environmental Science and Research Pollution*, DOI 10.1007/s11356-014-2711-4, 2014.

- Indira, G., **Vijay Bhaskar, B.**, Muthuchelian, K. “The impact of Aerosol optical depth impacts on rainfall in two different monsoon periods over Madurai, India”. Aerosol and Air Quality Research, 13:1608–1618, 2013.
- Indira, G., **Vijay Bhaskar, B.**, Muthuchelian, K. “Characterization of aerosol optical depths and rainfall at two semiarid regions in India”. Sustainable Environment Research, 23(6), 369-377, 2013.
- **Vijay Bhaskar, B.**, Jeba Rajasekhar, R.V., Muthusubramanian, P., Amit P. Kesarkar. “Ionic and heavy metal composition in PM10 in Madurai city” published in Environmental monitoring and assessment, Springer Publication. 2010.164:323–336.
- **Vijay Bhaskar, B.**, Vikram M. Mehta, Atmospheric Particulate Pollutants and their Relationship with Meteorology in Ahmadabad, Aerosol and Air Quality Research, 10: 301–315, 2010.
- **Vijay Bhaskar, B.**, Jeba Rajasekhar R.V., Muthusubramanian, P., Amit P. Kesarkar, “Measurement and modelling of PM10 and Pb pollution in Madurai city” in Air quality, Atmosphere and Health, Springer Publication 1: 45-55, 2008.

BOOK PUBLISHED

Title of the Book / Chapter	Author	Publisher	Year	ISBN Number
Issues in Environmental Law, Policy, and Planning: 2011 Edition	B. Vijay Bhaskar	Scholarly Edition, Atlanda.	2011	978-1-464-96468-8

MEMBERSHIP IN ACADEMIC BODIES

- Board of studies in Environmental Studies 2019-2022
- Doctoral Committee 2017-2020
- IQAC member 2018-2019

MEMBERSHIP IN PROFESSIONAL BODIES

- Indian Meteorological Society
- The Indian Science Congress Association
- Indian Aerosol Science and Technology Association

ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period (Month & Year)
Head i/c	Dept. of Bioenergy admisration	May, 2019 onwards
Head i/c	Dept. of Bioenergy admisration	Feb,2011 to Nov, 2013



CONTACT

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