

MANOJ KUMAR SRIVASTAVA (Ph.D.), Professor
Department of Geophysics, Banaras Hindu University, Varanasi, India. PIN- 220115
Passport: Z4056129
<https://in.linkedin.com/in/mksriv>

Academic Records ::

2007-Continued: :*Department of Geophysics, Banaras Hindu University, Varanasi, 221002, INDIA*
2013-Contd. :**Professor**
2010-2013 :**Associate Professor**
2007-2010. :**Reader**

2006-2007. :*Center for Astroparticle Physics and Space Sciences, Kolkata/Darjeeling, India.*
2006-2007 :**Research Scientist** and In-Charge for ‘Aerosol, Radiation, and Atmospheric Chemistry’
Research and Development.

2005-2006 :*Radio and Atmospheric Sciences Division, National Physical Laboratory, New Delhi, INDIA.*
2005-2006 :**CSIR-Pool Scientist/ Senior Research Associate**

2004-2005. :*Aryabhata Research Institute of Observational Sciences, Naini Tal, INDIA.*
2004-2005 :**Post Doctoral Fellow**

2003-2004 :*Winrock International, New Delhi, INDIA.*
2003-2004 :**Consultant** for Indian Initial Report to UNFCCC

2001-2003 :*Cantonal Observatory of Neuchatel, Neuchatel, Switzerland.*
2001-2003 :**Scientifique Collabeurateur** under EU funded ‘EARLINET’ program

1998-2001 :*Radio and Atmospheric Sciences Division, National Physical Laboratory, New Delhi, INDIA.*
1998-1999 :**CSIR-Research Associate**
1999-2000 :**Principal Investigator** (young scientist project)
2000-2001 :**CSIR-Research Associate**

1992-1998 :*Department of Geophysics, Banaras Hindu University, Varanasi, 221002, INDIA*
1997-1998 Ph. D. Dissertation - finalization of thesis, submission, assessment, and defend
Topic '**Surface layer studies in a per-humid station in the monsoon trough regime**'
Advisor: Dr. D. V. Viswanadham
1994-1997 :**CSIR - Senior Research Fellow.**
1992-1994 :**CSIR - Junior Research Fellow.**
1991 :**CSIR/UGC NET (National Eligibility Test).**

Educational Details::

Course	Board/University	Year	Marks Obtained	Major Subjects
Ph D	Banaras Hindu University, Varanasi	1997	Awarded	Geophysics
M Sc (Tech)	Banaras Hindu University, Varanasi	1991	1929/3000 (64.3%)	Geophysics
B Sc (Hons)	Banaras Hindu University, Varanasi	1988	1071/1800 (59.5%)	Geology (Hons.) Physics, Math
10+2	U P Board, Allahabad	1984	329/500 (65.8%)	Math, Physics, Chemistry
10	U P Board, Allahabad	1982	306/500 (61.2%)	Math, Science

Experience::

- * More than twenty years of overall post-doctoral research experience
- * More than 12 years teaching experience, to post graduate and PhD students

Particular expertise::

- * Tower-based micrometeorology.
 - * Quality check
 - * Data processing and Analyses
- * Sound Detection and Ranging (SoDAR)
 - * Analysis of SODAR facsimile.
- * Radiation, Ozone and Air Pollution
 - * Instrumentation
 - * Data Collection.
 - * Quality control, processing and analyses
- * Ground-Based-Backscatter-LiDAR
 - * Maintenance.
 - * Quality Control, Data collection, processing and analyses.
- * Radiation Transfer Modeling (NCAR-TUV, SBDART)
- * Transport modeling (HYSPLIT, FLEXTRA).

Scientific projects ::

- * Young Scientist (SERCYS) project sanctioned by the DST, Govt of India.
- * Pool Scientist project, sanctioned by the CSIR.
- * Lidar development project, sanctioned by the governing council of ARIES, Nainital.
- * Long-Term Analysis of Aerosols and Related Aerosol Radiative Forcing in Ganga Basin at B.H.U. Campus, Varanasi, currently running project, sponsored by Indian Space Research Organization (ISRO), Govt of India.

Financial Support and recognition from Government of India agencies:*{Annexure A}*

- i. Qualified CSIR-NET
- ii. Awarded CSIR- Junior Research Fellow/ Senior Research Fellow/ Research Associate/ Senior Research Associate
- iii. Recognized as DST-SERC-Young Scientist

Financial Support and recognition from foreign agencies:*{Annexure B}*

- | | | |
|------|--|-----------------------|
| i. | International Center for Theoretical Physics, Trieste, ITALY | (Visited Italy) |
| ii. | Government of Neuchatel Canton, SWITZERLAND | (Visited Switzerland) |
| iii. | Government of Neuchatel Canton, SWITZERLAND | (Visited Canada) |
| iv. | Government of Neuchatel Canton, SWITZERLAND | (Visited Italy) |
| v. | ICIMOD, Nepal | (Visited Nepal) |
| vi. | ICIMOD, Nepal | (Visited Nepal) |
| vii. | ICIMOD, Nepal | (Visited Thailand) |

Work Shops/ Training Courses/ Conferences Attended/ Organized::

- 1st SERC school on Agriculture Meteorology, Organized by the Department of Science and Technology, Government of India, Indira Gandhi Agriculture University, Raipur, 1991, **India**.
- International TROPMET, Indian Institute of Technology Delhi, New Delhi, 1992. **India**.
- 4th SERC school on Advanced Geophysical Fluid Dynamics, IITM, Pune, 1997, **India**.
- INDOEX Workshop, National Physical Laboratory, New Delhi Nov 1998, **India**.
- Intern.l training course on CO₂ Enrichment Research and Technology, IARI, New Delhi September 29-Oct 1, 1999, **India**.
- Advanced Course: Climate Change in the Mediterranean Region-Part 1: Physical Aspects, Abdus Salam International Center for Theoretical Physics, Trieste, Mar 12-16, 2001, **Italy**.
- 6th EARLINET Workshop, Ana Capri, Oct 9-11, 2002, **Italy**.
- International Laser Radar Conference, Quebec, July 8-12, 2002, **Canada**.
- Workshop on Indian Initial Communication to UNFCCC, New Delhi, 2004, **India**.
- International IASTA Conference, IIT Kanpur, October 15-17, 2004, **India**.
- International MONEX25 conference, New Delhi, Feb 3-8, 2005, **India**.
- 28th URSI-General Assembly, New Delhi, Oct 23-29, 2005, **India**.
- 4th Asian Aerosol Conference, Mumbai, Dec 13-16, 2005, **India**.

- APN CAPaBLE Scoping Workshop on SARAP Results, Darjeeling, Oct 8-11, 2006, **India**. (Organizing Committee).
- Brainstorming Workshop on Aerosols and its impact on the Climate with special reference to the Indo-Gangetic Basin, IIT Kanpur, Nov 10-11, 2006, **India**.
- IASTA Conference on Emerging trends in Aerosols: Technology & Applications, NPL, New Delhi, Nov 14-16, 2007. **India**.
- 46th Indian Geophysical Union Meet and Seminar, Banaras Hindu University, Varanasi, Nov 5-7, 2008, **India**.
- PETROTECH-2009, New Delhi, Jan 13-14, 2009, **India**.
- International Workshop on ‘Spectroscopic Signatures of Molecular Complexes/Ions in our Atmosphere and Beyond’ (National Organizing Committee), Banaras Hindu University, Varanasi, Feb 2-4, 2010, **India**.
- IASTA 2010 (Technical Committee Member), CAPSs, Bose Institute, Darjeeling, March 24-26, 2010, **India**.
- ICON-GSECCES 2010, (Joint-Secretary), Department of Geophysics, Banaras Hindu University, Dec 21-23, 2010, **India**.
- UGC sponsored short-term course on ‘Excellence in Higher Education’, Academic Staff College and F M S, BHU, February 23-28, 2012, **India**.
- Indo-US Bilateral Workshop on Global Challenges: Climate Change, Water, Environment and Society, March 5-6, 2012. **India** (Invited Talk).
- Workshop on Atmospheric Composition and the Asian Summer Monsoon (ACAM), June 9-12, 2013, Kathmandu, **Nepal**.
- First Annual Regional Atmospheric Science Workshop, June, 13-14, 2013, Kathmandu, **Nepal**.
- Second Annual Regional Atmospheric Science Workshop, June 7-9, 2014, Pokhara, Nepal
- **Convener and Organizing Secretary, Conference of Indian Aerosol Science and Technology Association (IASTA2014), Nov 11-13, 2014, Varanasi, India**
- Meeting on Winter Fog Campaign, Organized by ICIMOD, June 7-8, 2015, Bangkok, **Thailand**,
- Workshop on Atmospheric Composition and the Asian Summer Monsoon (ACAM), June 8-10, 2015, Bangkok, **Thailand**.
- Tropmet-2017, Dec 21-23, 2017, Bhubneshwar, **India**.
- 14th Annual meeting of Asia-Oceania Geosciences Society (AOGS2017), August 6-11, 2017, **Singapore**.
- **Treasurer, TROPMET-2018 (Annual Symposium of Indian Meteorological Society), Oct 24-27, 2018, Varanasi, India.**
- 16th Annual meeting of Asia-Oceania Geosciences Society (AOGS2019), July 28-August 02, 2019, **Singapore**.

Publications::*{Annexure C}*

Journal:	71
International Conferences:	More than 20
Popular:	One
Book Chapter:	One

Research Supervision:*{Annexure D}*

Master Theses:	22
Doctoral Theses:	4

Professional Membership:

- * Life Member: Indian Meteorological Society (IMS) (**Treasurer, Varanasi Chapter**).
- * Life Member: Indian Association of Agrometeorology.
- * Life Member: Indian Aerosol Science and Technology Association (IASTA).
- * Life Member: Indian Geophysical Union
- * Faculty Advisor: SPG Student Chapter
- * Faculty Advisor: SEG Student Chapter (Member, SEG)

Personal Details:

Name : **MANOJ Kr SRIVASTAVA, Prof.** **Indian.**

Permanent Address : C 27/234, Jagatganj, Varanasi, PIN- 221 002, INDIA.

Tel. No. : (Personal) 0091.9452.82.8888

Communication Address **Professor**
Department of Geophysics, Institute of Science
Banaras Hindu University
Varanasi, PIN-221005, INDIA

E-Mail : mksriv@gmail.com
(In order of preference) mksriv@bhu.ac.in

Annexure A**Financial Support and recognition from Government of India agencies:**

Award	Agency	Award Number/ Date
UGC/CSIR-National Eligibility for Lectureship (NET in Earth Sciences)	Council of Scientific and Industrial Research, New Delhi	9/13(533)90/EMR-I, Dated. Oct 15, 1991
CSIR-Junior Research Fellowship (CSIR-JRF; 2yrs)	Council of Scientific and Industrial Research, New Delhi	9/13(533)90/EMR-I, Dated. APR 8, 1992
CSIR-Senior Research Fellowship (CSIR-SRF, 3 yrs)	Council of Scientific and Industrial Research, New Delhi	Extension to JRF award: 9/13(533)90/EMR-I, Dated. APR 8, 1992
CSIR-Research Associateship (CSIR-RA, 3 yrs)	Council of Scientific and Industrial Research, New Delhi	31/1(156)/98-EMR-I, Dated. OCT 21, 1998
DST-SERC-Young Scientist (SERCYS; 2 yrs)	Science and Engineering Research Council, Department of Science and Technology, New Delhi	HR/OY/A-11/98, DTD. Dated 23, 1998
CSIR-Senior Research Associateship (Pool Officer; 3 yrs.)	Council of Scientific and Industrial Research, New Delhi	Offer letter no.: IA-27208, Dated. AUG 25, 2004

Annexure B**Financial Support and recognition from International Agencies:**

Agency	Purpose of support/ Place	Duration/Period
International Center for Theoretical Physics, Trieste, ITALY	Training on climate-change issue/ Trieste, Italy	5 days/ March 12-16, 2001
Government of Neuchatel Canton, SWITZERLAND	Position of 'Scientific Collaborator'/ Neuchatel, Switzerland	Two years wef. October 1, 2001
Government of Neuchatel Canton, SWITZERLAND	Participation in 21st International Laser Radar Conference/ Quebec, Canada	One week/ July 5-12, 2002
Government of Neuchatel Canton, SWITZERLAND	Participation for EARLINET meeting/ workshop, Ana Capri, Italy	One week/ October 12-17, 2002.
International Centre for Integrated Mountain Development (ICIMOD), NEPAL	ACAM Workshop, Kathmandu, Nepal	3 days/ June 9-12, 2013.
International Centre for Integrated Mountain Development (ICIMOD), NEPAL	First Annual Regional Atmospheric Science Workshop, Kathmandu, Nepal	2 days/ June, 13-14, 2013.
International Centre for Integrated Mountain Development (ICIMOD), NEPAL	Second Annual Regional Atmospheric Science Workshop Pokhara, Nepal	3 days/ June 7-9, 2014.
International Centre for Integrated Mountain Development (ICIMOD), NEPAL	Meeting on Winter Fog Campaign, Bangkok, Thailand,	2 days/ June 7-8, 2015.
International Centre for Integrated Mountain Development (ICIMOD), NEPAL	Workshop on Atmospheric Composition and the Asian Summer Monsoon (ACAM), Bangkok, Thailand	3 days/ June 8-10, 2015.
Asia Oceania Geosciences Society, SINGAPORE	14 th AOGS Annual Meeting, 2017, Singapore	6 days/ August 6-11, 2017

Annexure C**Publications:: (J-Journal, IC-Refereed Proceeding of International Conferences)****2021:**

J71: Chemical characterization, source apportionment and transport pathways of PM_{2.5} and PM₁₀ over Indo Gangetic Plain of India, Srishti Jain; **Manoj K Srivastava**; Abhijit Chatterjee; Vijayan N; S. Swarupa Tripathy; K. Maharaj Kumari; Tuhin Kumar Mandal; Chhemendra Sharma, *Urban Climate*, 2021, *Accepted*

2020:

J70: Implications of different aerosol species to direct radiative forcing and atmospheric heating rate, A. K. Srivastava, Bharat Ji Mehrotra, Abhishek Singh, V. Singh, D. S. Bisht, S. Tiwari, **Manoj K. Srivastava**, *Atmosph Environ*, 2020, 241, 117820, <https://doi.org/10.1016/j.atmosenv.2020.117820>

J69: Variations in vapor pressure and standardized precipitation evapotranspiration index since AD 1861 over the western Himalaya in India: inference from tree ring-width records, Somaru Ram, H. N. Singh, Ramesh Kumar Yadav, Hamza Varikoden, S. S. Nandargi, **Manoj K. Srivastava**, *Theoretical Appl Climatol*, 2019, <https://doi.org/10.1007/s00704-019-03075-5>

2019:

J68: Tree rings-width study of western Himalaya and its linkage with boreal spring vapor pressure and wet-day frequency, Somaru Ram, H. N. Singh, Ramesh Kumar Yadav, and **Manoj K Srivastava**, *J Indian Acad Wood Sci*, 2019. <https://doi.org/10.1007/s13196-019-00243-y>, 1-7

J67: Reconstruction of potential evapotranspiration over western Himalaya in India based on tree ring-width records, Somaru Ram, R K Yadav, **Manoj K. Srivastava**, S S Nandargi, H N Singh, *Quat Intern*, *Accepted*, May 2019.

J66: Tree ring-width study from north Sikkim region of India in relation to heat and moisture index: A case study, Somaru Ram, Ramesh Kumar Yadav, H.N. Singh, and **Manoj K. Srivastava**, *J. Ind. Geophys. Union.*, 23(3)

J65: Long-term (2005–2012) measurements of near-surface air pollutants at an urban location in the Indo-Gangetic Basin, N Kishore, A K Srivastava, Hemwati Nandan, Chhavi P Pandey, S Agrawal, N Singh, V K Soni, D S Bisht, S Tiwari and **Manoj K Srivastava**, *J. Earth Syst. Sci.*(2019) 128:55

J64: Analysis of Direct, Diffuse and Global Solar Radiations over Varanasi at Eastern Indo-Gangetic Plain (IGP), India, Pramod Kumar Yadava, **Manoj K Srivastava**², Priyanshu Gupta, Rajeev K Singh, Divya Prakash Yadav and Sunita Verma, *J Geog Environ Earth Sci Intern*, 19(2): 1-15, 2019, DOI:10.9734/JGEESI/2019/v19i230081.

2018:

J63: Source Apportionment of PM₁₀ over three Tropical Urban Atmospheres at Indo-Gangetic Plain of India: An Approach Using Different Receptor Models, S. Jain; S. Sharma, **Manoj K. Srivastava**; A. Chatterjee; Rajeev K. Singh; M. Saxena; T. K. Mandal. *Arch Environ Conta Toxicol*, 76:114–128, 2019, <https://doi.org/10.1007/s00244-018-0572-4>

J62: Climatic response of Cedrus deodara tree-ring width records from Jangla of western Himalaya in India: A case study, Somaru Ram, H. N. Singh, Ramesh Kumar Yadav, **Manoj K Srivastava**, *J. Ind. Geophys. Union.*, 22(6) 632-639, 2018.

J61: Identification of aerosol sources and its characterization at Varanasi: An air mass based study, S. Tiwari, R.K. Singh, A.K. Srivastava, V.K. Soni, Suresh Tiwari, R.S. Singh, **Manoj K. Srivastava**, A.K. Singh, *Intern J Earth Atmosph Sci*, 05, 19-35, 2018.

J60: Quantification of observed electrical effect on the raindrop size distribution in tropical clouds, D. Mudiar, S. D. Pawar, A. Hazra, M. Konwar, V. Gopalakrishnan, **Manoj K. Srivastava**, B. N. Goswami, 2018, *J Geophys Res*, 123. <https://doi.org/10.1029/2017JD028205>

2017:

J59: Relationship between aerosol and lightning over Indo-Gangetic Plain (IGP), India, D.M. Lal, Sachin D. Ghude, M. Mahakur, R. T. Waghmare, S. Tiwari, **Manoj K. Srivastava**, G. S. Meena and D. M. Chate, *Clim Dyn* (2018) 50:3865–3884, DOI 10.1007/s00382-017-3851-2. 3865-3884

2016:

J58: Chemical characterization of rainwater at a high-altitude site "Nainital" in the Central Himalayas, India, D. S. Bisht, A. K. Srivastava, H. Joshi, K. Ram, N. Singh, M. Naja, **Manoj K. Srivastava**, S. Tiwari, *Environ Sci Pollut Res*, *Accepted* (2016)

- J57:** Absorbing Aerosols, Possible Implication to Crop Yield - A Comparison between IGB Stations, R. Latha, B. S. Murthy, K. Lipi, **Manoj K. Srivastava**, Manoj Kumar, *Aerosol Air Qual Res*, doi: 10.4209/aaqr.2016.02.0554
- J56:** Spatio-temporal Variation in Chemical Characteristics of PM10 over Indo Gangetic Plain of India, S. K. Sharma, T. K. Mandal, **Manoj K. Srivastava**, A. Chatterjee, Srishti Jain, M. Saxena, B. P. Singh, Saraswati, A. Sharma, A. Adak and S. K. Ghosh, *Environ Sci Pollut Res*, 23:18809–18822, DOI 10.1007/s11356-016-7025-2, 2016
- J55:** Aerosol chemical characterization and role of carbonaceous aerosol on radiative effect over Varanasi in central Indo-Gangetic Plain, S. Tiwari, U.C. Dumka, D.G. Kaskaoutis, Kirpa Ram, A.S. Panicker, **Manoj K. Srivastava**, Shani Tiwari, S.D. Attri, V.K. Soni, A.K. Pandey, *Atmosph. Environ.*, 125, 437–449, 2016.
- 2015:**
- J54:** Nature and sources of ionic species in precipitation across the Indo-Gangetic Plains, India, S. Tiwari, Philip K. Hopke, D. Thimmaiah, U. C. Dumka, A. K. Srivastava, D. S. Bisht, P. S. P. Rao, D. M. Chate, **Manoj K. Srivastava**, S. N. Tripathi, *Aerosol Air Qual Res.*, DOI: 10.4209/aaqr.2015.06.0423, 2015, 943-957
- J53:** Seasonal inhomogeneity of soot particle over central Indo-Gangetic Plains, India : Influence of meteorology, B. P. Singh, S. Tiwari, Philip K Hopke, R. S. Singh, D. S. Bisht, A. K. Srivastava, R. K. Singh, U. C. Dumka, A. K. Singh, B. N. Rai, **Manoj K. Srivastava**, *J. Meteor. Res.*, 29(6), 935-949, doi: 10.1007/s13351-015-5041-7.
- J52:** Variation of stable carbon and nitrogen isotopic composition of PM10 at urban sites of Indo Gangetic Plain (IGP) of India, S. K. Sharma, T. K. Mandal, D. M. Shenoy, Pratiropa Bardhan, **Manoj K. Srivastava**, A. Chatterjee, Mohit Saxena, Saraswati, B. P. Singh and S. K. Ghosh, *Bull. Environ. Contamination Toxicol.*, DOI 10.1007/s00128-015-1660-z, 2015.
- J51:** Scattering and absorption properties of near-surface aerosol over Gangetic–Himalayan region: the role of boundary layer dynamics and long-range transport, U. C. Dumka, D. G. Kaskaoutis, **Manoj K. Srivastava**, and P. C. S. Devara, *Atmos. Chem. Phys.*, 15, 1555–1572, 2015.
- J50:** Meteorological, atmospheric and climatic perturbations during major dust storms over Indo-Gangetic basin, Sarvan Kumar, Sanjay Kumar, D.G. Kaskaoutis, Ramesh P. Singh, Rajeev K. Singh, Amit K. Mishra, **Manoj K. Srivastava** and Abhay K. Singh, *Aeolian Res.*, 17, 15–31, 2015.
- J49:** Aerosol characteristics at a rural station in southern peninsular India during CAIPEEX-IGOC: physical and chemical properties, D. S. Bisht, A. K. Srivastava, A. S. Pipal, **Manoj K. Srivastava**, A. K. Pandey, S. Tiwari and G. Pandithurai, *Environ Sci Pollut Res*, 22:5293–530, DOI 10.1007/s11356-014-3836-1, 2015
- 2014:**
- J48:** Characterisation of Atmospheric Aerosol by SEM-EDX and Ion-Chromatography Techniques for Eastern Indo-Gangetic Plain Location, Varanasi, India, A.K. Singh, **Manoj K. Srivastava**, Meenakshi Singh, A. Srivastava, Sarvan Kumar, Shani Tiwari, B. P. Singh, D. S. Bisht, and Suresh Tiwari, *Intern J Adv Earth Sci*, 3, 41-51, 2014.
- J47:** High concentration of acidic species in rainwater at Varanasi in the Indo Gangetic-Plains, India, D. S. Bisht, S. Tiwari, A. K. Srivastava, J.V. Singh, B.P. Singh and **Manoj K. Srivastava**, *Natural Haz.*, DOI 10.1007/s11069-014-14, 2014. 2015, 75, 3, 2985–3003
- J46:** Aerosol optical properties and their relationship with meteorological parameters during wintertime in Delhi, India, S. tiwari, G Pandithurai, S D Attri, Atul K Srivastava, V K Soni, Deewan S Bisht, V A Kumar, **Manoj K. Srivastava**, *Atmosph. Res.*, 153, 2015, Pages 465–479; doi:10.1016/j.atmosres.2014.10.003
- J45:** Scattering and absorption properties of near-surface aerosol over Gangetic–Himalayan region: the role of boundary layer dynamics and long-range transport, Dumka, U. C., Kaskaoutis, D. G., **Manoj K. Srivastava**, and Devara, P. C. S., *Atmos. Chem. Phys. Discuss.*, 14, 21101-21148, doi:10.5194/acpd-14-21101-2014, 2014.
- J44:** Variability in atmospheric particulates and meteorological effects on their mass concentrations over Delhi, India, S. Tiwari, D.S. Bisht, A.K. Srivastava, A.S. Pipal, A. Taneja, **Manoj K. Srivastava**, S.D. Attri, *Atmosph. Res.*, 145–146, 45–56, http://dx.doi.org/10.1016/j.atmosres.2014.03.027, 2014.
- J43:** Sources and characteristics of carbonaceous aerosols at Agra “World heritage site” and Delhi “capital city of India”, A. S. Pipal, S. Tiwari, P. G. Satsangi, Ajay Taneja, D.S. Bisht, A. K. Srivastava and **Manoj K. Srivastava**, *Environ. Sci. Pollut. Res.*, DOI 10.1007/s11356-014-2768-0, 2014
- J42:** Impacts of the high loadings of primary and secondary aerosols on light extinction at Delhi during wintertime. Tiwari S., A.K. Srivastava, D.M. Chate, P.D. Safai, D.S. Bisht, **Manoj K. Srivastava** and G. Beig, *Atmosph. Environ.*, 60–68, doi: 10.1016/j.atmosenv.2014.03.064, 2014
- J41:** Characterization of carbonaceous aerosols over Delhi in Ganga basin: Seasonal variability and possible sources, A. K. Srivastava, D. S. Bisht, K. Ram, S. Tiwari and **Manoj K. Srivastava**, *Environ. Sci. Pollut. Res.*, doi: 10.1007/s11356-014-2660-y, 2014.
- 2013:**

- J40:** Radiative impact of fireworks at a tropical Indian location: A case study, B P Singh, A K Srivastava, S Tiwari, S Singh, R K Singh, Deewan Singh Bisht, D M Lal, Abhay Kumar Singh, **Manoj K. Srivastava** and R. K. Mall, *Adv. Meteorol.*, <http://dx.doi.org/10.1155/2014/197072>, 2013
- J39:** Role of coreless winter in favoring survival of microorganisms over the Schirmacher oasis, east Antarctica, R Kaur, HN Dutta, NC Deb, K Gajananda, **Manoj K. Srivastava**, VE Lagun, *J. Ecophysiology Occ. Health*, 13 (1 & 2), 11-19, 2013
- J38:** Investigation of Unusual Atmospheric Warming over the Schirmacher oasis, East Antarctica, Rupinder Kaur, H.N. Dutta, N.C. Deb, Kh. Gajananda, **Manoj K. Srivastava** and V. E. Lagun, *Intern. J. Sci. Tech.*, 2 (7), 550-559, 2013.
- J37:** Influence of aerosol on clouds over the Indo-Gangetic Plain, India, D. M. Lal, S. D. Patil, H. N. Singh, Sachin D. Ghude, S. Tiwari, **Manoj K. Srivastava**, *Clim. Dyn.*, DOI10.1007/s00382-013-1775-z, 2013.
- J36:** Diurnal and seasonal variation of black carbon and PM_{2.5} over New Delhi, India: Influence of Meteorology, Tiwari S., Srivastava A. K., Bisht D. S., Parmita P., **Manoj K. Srivastava** and S. D. Attri, *Atmosph. Res.* <http://dx.doi.org/10.1016/j.atmosres.2013.01.011>, 2013
- 2012:**
- J35:** Inter-Annual and Intra-Seasonal Variability of Mass PM_{2.5} Aerosol Level in the Ambient Air of a Mega City, Delhi, India, S. Tiwari, D. S. Bisht, P. Pragya, A. K. Srivastava, V. Upadhyay and **Manoj K Srivastava**, *Inter. J. Res. Chem. Environ.*, 2 (4), 2012.
- J34:** Assessment of air quality during 19th Commonwealth Games at Delhi, India, D. S. Bisht, S. Tiwari, A. K. Srivastava, **Manoj K. Srivastava**, *Nat. Hazards*, DOI 10.1007/s11069-012-0349-4
- J33:** Tropospheric ozone and aerosol long-term trends over the Indo-Gangetic Plain (IGP), India, Lal, D.M., Sachin D. Ghude, S.D. Patil, Santosh H. Kulkarni, Chinmay Jena, S. Tiwari, **Manoj K. Srivastava**, *Atmosph. Res.*, doi:10.1016/j.atmosres.2012.02.014, Vol. 116, 82–92, 2012
- IC19:** Changing Environment and Solar Radiation Response: Regional study over India, **Manoj K Srivastava**, R K S Maurya, B P Singh, S Tiwari, R K Mall, A K Srivastava, S K Srivastava and U S De, *Proc Indo-US Bilateral Workshop on Global Challenges: Climate Change, Water, Environment and Society*, 1-9, 2012.
- 2011:**
- IC18:** Annual cycle of aerosol backscatter coefficient and aerosol mixed layer height above Neuchâtel (Switzerland, 47.00°N, 6.95°E), **Manoj K Srivastava**, Frioud, Max, Matthey, Renoud, and Mitev, Valentin, *Nature Precedings*, doi:10.1038/npre.2011.6425.1, 2011
- J32** Rainwater chemistry in the North Western Himalayan Region, India, S. Tiwari, D.M. Chate, D.S. Bisht, **Manoj K. Srivastava**, B. Padmanabhamurty, *Atmosph. Res.*, doi:10.1016/j.atmosres.2011.09.006, 2011
- J31:** Aerosol optical properties over Delhi and Manora Peak during a rare dust event in early April 2005, **Manoj K Srivastava**, S K Srivastava, Auromeet Saha, S Tiwari, S Singh, U C Dumka, Bhanu P Singh, N P Singh, *Int. J Remote Sens.*, DOI:10.1080/01431161.2010.523732, 2011
- J30** Statistical evaluation of PM₁₀ and distribution of PM₁, PM_{2.5}, and PM₁₀ in ambient air due to extreme fireworks episodes (Diwali festivals) in megacity Delhi, S. Tiwari, D. M. Chate, **Manoj K. Srivastava**, P. D. Safai, A. K. Srivastava, D. S. Bisht, B. Padmanabhamurty, *Nat. Hazards*, DOI 10.1007/s11069-011-9931-4, 2011.
- J29:** Pre-monsoon aerosol characteristics over the Indo-Gangetic Basin: implications to climatic impact, A. K. Srivastava, S. Tiwari, P. C. S. Devara, D. S. Bisht, **Manoj K. Srivastava**, S. N. Tripathi, P. Goloub, and B. N. Holben, *Ann. Geophys.*, 29, 1–15, 2011, www.ann-geophys.net/29/1/2011/doi:10.5194/angeo-29-1-2011, 789–804, 2011.
- J28:** Aerosol characteristics during the coolest June month over New Delhi, northern India, A K Srivastava, S Tiwari, D S Bisht, P C S Devara, P Goloub, Z Li and **Manoj K Srivastava**, *Int. J Remote Sens.*, *iFirst*, DOI: 10.1080/01431161.2010.542196, 1-21, 2011.
- 2010:**
- J27:** Aerosol Chemistry over a High Altitude Station at Northeastern Himalayas, India, A. Chatterjee, A. Adak, A. K. Singh, **Manoj K. Srivastava**, S. K. Ghosh, Suresh Tiwari, P. C. S. Devara, Sibaji Raha, *PLoS ONE* 5(6): e11122., doi:10.1371/journal.pone.0011122, 2010.
- IC17:** Gradients in aerosol properties over the Indo-Gangetic Basin and their impact on radiative forcing. Srivastava, A. K., Suresh Tiwari, P. C. S. Devara, D. S. Bisht, **Manoj K. Srivastava**, S. N. Tripathi, P. Goloub, and B. N. Holben. International Aerosol Conference (IAC-2010), University of Helsinki, Helsinki, Finland, August 29-September 03, 2010.

- J26:** Behavior of Sunshine Duration over Indo-Gangetic Plain during 1983-2007, **Manoj K Srivastava**, R K S Maurya, B P Singh, S K Srivastava, S Tiwari, S Singh, R K Mall, L Narayan, A K Srivastava and S N Pandey, *Nava Gavesana*, **1(1)**, 57-61, 2010.
- J25:** Floods and hazardous heavy rainfall in India: Comparison between Local versus Oceanic impact, S. N. Pandey, R. Bhatla, R. K. Mall and **Manoj K. Srivastava**, *J Agromet*, **12(1)**, 40-43, 2010.
- 2009:**
- J24:** Black Carbon and Chemical characteristics of PM10 and PM2.5 at an urban site of North India, Suresh Tiwari, A. K. Srivastava, D. S. Bisht, T. Bano, Sachchidanand Singh, S. Behura, **Manoj K. Srivastava**, D. M. Chate and B. Padmanabhamurty, *J Atmos Chem*, **62:193–209**, DOI 10.1007/s10874-010-9148-z, 2009.
- 2008:**
- J23:** Study of Aridity Features during Southwest Monsoon over India, S N Pandey, R Bhatla, **Manoj K Srivastava**, R K Mall and Arun Singh, *Nat Geogr J India*, **54**, 1-10, 2008.
- J22:** Chemical characteristics of water soluble components of fine particulate matter, PM_{2.5}, at Delhi, India, S Tiwari, **Manoj K Srivastava** and D S Bisht, *Earth Sci India*, **1**, 92-107, 2008.
- J21:** Chemical composition of rainwater in Panipat-An industrial city in Haryana, S Tiwari, **Manoj K Srivastava** and D S Bisht, *Ind J Radio Space Phy*, **37**, 443-449, 2008.
- 2007:**
- J20:** Annual Cycle of major water soluble ionic species in aerosols of a high altitude station, Darjeeling, India (27001/N, 88015/E, ~2182 masl), A Chatterjee, A Adak, **Manoj K Srivastava**, S Tiwari, Ajay K Singh, Y Yadav, A Mitra, S K Ghosh, S Raha, *IASTA Bull*, **18**, 129-135, 2007.
- J19:** Carbonaceous Aerosols over Bay of Bengal and Arabian Sea in the Pre-Monsoon Season, T Saud, T K Mandal, Y N Ahemmed, S Singh, **Manoj K Srivastava**, J K Bassin, P Mandal, *IASTA Bull*, **18**, 179-181, 2007.
- J18:** Atmospheric Particulate Matter behavior at Delhi: Study of PM10 and PM2.5 size particles, S Tiwari, **Manoj K Srivastava**, D S Bisht, *IASTA Bull*, **18**, 64-68, 2007.
- J17:** Aerosol radiative forcing over the Indo-Gangetic plains during major dust storms, Anup K. Prasad, Sachchidanand Singh, S. S. Chauhan, **Manoj K Srivastava**, Ramesh P. Singh, Risal Singh and Brent Holben, *Atmosph Environ*, **41**, 6289–6301, 2007.
- IC16:** Chemical composition of rainwater at Panipat, an industrial city in Haryana, India, Suresh Tiwari, **Manoj K Srivastava**, Kuniyal J.C. and Bisht D.S., International conference on “Aerosol, chemistry, climate interactions (ACCLINT-2007)”, Physical Research Laboratory, Ahmedabad, November 20-22, 2007, 58-59.
- 2006:**
- J16:** Physical and optical characterisation of aerosols from a high-altitude station in central Himalayas, Auromeet Saha, U C Dumka, P Hegde, **Manoj K Srivastava**, P Pant and R Sagar, *Chemical Engineering Transactions (Editor Eliseo Ranzi)*, Vol. 10, Italy, 119-124, 2006.
- J15:** Aerosol characteristics at a high-altitude location during ISRO–GBP Land Campaign-II, P Pant, P Hegde, U C Dumka, Auromeet Saha, **Manoj K Srivastava** and Ram Sagar, *Curr Sci*, **91 (8)**, 1053-1061, 2006.
- J14:** Aerosol characteristics at a high-altitude location in central Himalayas: Optical properties and radiative forcing, P Pant, P Hegde, U C Dumka, R Sagar, S K Satheesh, K K Moorthy, A Saha, and **Manoj K Srivastava**, *J Geophys Res*, **111**, D17206, doi:10.1029/2005JD006768.
- J13:** A study of aerosol optical depth in the central Indian region (17.30N to 28.60N) during ISRO-GBP field campaign, Sachchidanand Singh, Bhupender Singh, B S Gera, **Manoj K Srivastava**, H N Dutta, S C Garg, and Risal Singh, *Atmosph Environ* **40 (2006)** 6494– 6503.
- J12:** Direct solar ultraviolet irradiance over Nainital, India in the central Himalayas for clear sky day conditions during December 2004, **Manoj K Srivastava**, Sachchidanand Singh, Auromeet Saha, U C Dumka, Prashant Hegde, R Singh and P Pant, *J Geophys Res*, **111**, D08201, doi:10.1029/2005JD006141, 2006.
- 2005:**
- J11:** Backscatter lidar observation of the aerosol stratification in the lower troposphere during winter Bise: a case study, Valentin Mitev, Matthey R, Frioud M, **Manoj K Srivastava**, Eckhardt S; Stohl A, *Meteorol Zeit*, **14 (5)**, 2005, 663-669.
- IC15:** Impact of seasonal variation of atmospheric aerosols on UVB and total radiation flux over Delhi, Sachchidanand Singh, **Manoj K. Srivastava**, Risal Singh, Shambhu Nath, and R. S. Tanwar, 28th URSI-General Assembly, New Delhi, India, October 23-29, 2005.
- 2004:**
- J10:** Long-range transport of Saharan dust to northern Europe: The 11-16 October outbreak observed with

EARLINET, A Ansmann, J Bosenberg, A Chaikovsky, A Comeron, R Eixmann, V Freudenthaler, P Ginoux, L Komguem, H Linne, M Angel, L Marquez, **Manoj K Srivastava**, V Matthias, I Mattis, V Mitev, D Muller, S Nickovic, J Pelon, L Sauvage, P Sobolewsky, A Stohl, O Torres, G Vaughan, U Wandinger, and M Wiegner, *J Geophys Res*, **108**, D24, DOI: 10.1029/2003JD003757) 2004.

- J9:** Comparison of lidar methods to determine the Aerosol Mixed Layer top, G. Martucci, **Manoj K Srivastava**, V. Mitev, R. Matthey, M. Frioud and H. Richner, in *Remote Sensing of Clouds and the Atmosphere VIII*; Klaus P. Schaefer, Adolfo Comeron, Michel R. Carleer, Richard H. Picard; Eds. (*Proc SPIE*, Vol. 5235), 447-456, 2004 doi:10.1117/12.530912.
- J8:** Remote-Controlled automatic backscatter lidar for PBL and troposphere measurements: Description and first results, G. Martucci, V. Mitev, R. Matthey, **Manoj K Srivastava**, in *Remote Sensing of Clouds and the Atmosphere VIII*; Klaus P. Schaefer, Adolfo Comeron, Michel R. Carleer, Richard H. Picard; Eds. (*Proc SPIE*, Vol. 5235), 661-672, 2004.
- IC14:** Long-range transport of saharan dust over europe observed by Lidar and sun photometers (earlinet, aeronet) and satellite Observations. Laurent Sauvage, Jacques Pelon, Fedrico Fierli, Patrick Chazette, Philippe Goloub, Carlos Munoz, **Manoj K Srivastava**, Matthias Wiegne, *Proc 22nd International Laser Radar Conference (ILRC22)*, Matera, Italy, July 1216, 2004, pp 899-901 (S9P-4).
- IC13:** Determination of mixing layer height using lidar, **Manoj K Srivastava**, Giovanni Martucci, Valentin Mitev, Renaud Matthey, Max Frioud, Hans Richner, *Proc Intl IASTA conf on aerosols, clouds and Indian monsoon (ISSN 0971-4510) pp 200-204, 2004.*

2003:

- IC12:** Aerosol Mixed Layer dynamics over lake-mountain terrain, **Manoj K Srivastava**, Max Frioud, Renaud Matthey and Valentin Mitev, *Proc Conf The Vertical Distribution of Aerosol Over Europe*, Hamburg, Germany, Feb 11-12, 2003.
- IC11:** Aerosols statistics in the PBL and lower troposphere above Neuchâtel (Switzerland): Two years of routine measurements, **Manoj K Srivastava**, Max Frioud, Renaud Matthey and Valentin Mitev, *Proc Conf The Vertical Distribution of Aerosol Over Europe*, Hamburg, Germany, Feb 11-12, 2003.
- IC10:** Backscatter lidar observation of PBL above Neuchâtel (Switzerland) during Winter Bise wind, **Manoj K Srivastava**, Max Frioud, Renaud Matthey and Valentin Mitev, *Proc Conf The Vertical Distribution of Aerosol Over Europe*, Hamburg, Germany, Feb 11-12, 2003.
- IC9:** Long Range Transport of Saharan dust particles over Europe derived from lidar, sunphotometer and satellite observations, L Sauvage, J Pelon, F Fierli, Y Balkanski, P Chazatte, P Goloub, J F Leon, C Munot and **Manoj K Srivastava**, *Proc European Aerosol Conference*, Madrid, Spain, September 9-11, 2003.
- IC8:** Annual cycle of aerosol backscatter coefficient and aerosol mixed layer height above Neuchâtel (Switzerland, 47.00°N, 6.95°E), **Manoj K Srivastava**, M. Frioud, R. Matthey and V. Mitev, *Proc 6th International Symposium on Tropospheric Profiling*, Leipzig, Germany, September 14-20, 2003, 354-356.
- IC7:** Backscatter lidar observation of Sahara dust over Neuchâtel (Switzerland), **Manoj K Srivastava**, M. Frioud, R. Matthey and V. Mitev, *Proc 6th International Symposium on Tropospheric Profiling*, Leipzig, Germany, September 14-20, 2003, 357-359.
- IC6:** Coordinated vertical profiling of Saharan dust over western and central Europe with a continental lidar network: The October 11-16 2001 outbreak, A. Ansmann, J. Bösenberg, A. Chaikovsky, R. Eixmann, V. Freudenthaler, D. Garsia-Vizcaino, L. Komguem, H. Linne, V. Matthias, I. Mattis, V. Mitev, D. Müller, C. Munos, S. Nicovic, J. Pelon, L. Sauvage, P. Sobolewski, **Manoj K Srivastava**, G. Vaughan, U. Wandinger and M. Wiegner, *Proc 6th International Symposium on Tropospheric Profiling*, Leipzig, Germany, September 14-20 2003, 423-425.
- IC5:** Lifting and transport of Saharan dust aerosols over Europe under synoptic atmospheric forcing conditions: Observations with lidar and photometer network, L Sauvage, J Pelon, F Fierli, P Chazatte, **Manoj K Srivastava** and D Tanre, *Proc 6th International Symposium on Tropospheric Profiling*, Leipzig, Germany, September 14-20, 2003.

2002:

- J7:** Summertime Turbulent Heat Fluxes at East Antarctica over neighboring Rocky and Ice Shelf Sites. **Manoj K Srivastava**, P K Pasricha, H N Dutta and R Singh, *Mausam*, **53**, 2002, pp 69-74.
- J6:** Prediction of potential and attainable yield of wheat: A case study of yield gap. R K Mall and **Manoj K Srivastava**, *Mausam*, **53**, 2002, pp 45-52.
- J5:** Turbulent kinetic energy in the atmospheric surface layer during the summer monsoon, **Manoj K Srivastava** and P Parth Sarthi, *Meteorol Appl*, **9**, 2002, pp 239-246.
- J4:** Solar UV-B and atmospheric aerosol at Antarctica., Shambhoo Nath, R Singh and **Manoj K Srivastava**, *Antarctic Expedition Report*, **15**, 2002.
- IC4:** Lidar observation of convective PBL daily development over lake-mountain region, **Manoj K Srivastava**, Renaud Matthey, Max Frioud and Valentin Mitev, **in book 'Lidar Remote Sensing in Atmospheric and Earth Sciences'** (Eds Luc Bissonnette, Gilles Roy, Gilles Vallee), Quebec, Canada, 2002, pp: 177-181.

2001:

- J3:** Warm Spell over Schirmacher Region of East Antarctica during February 1996, N C Deb, **Manoj K Srivastava**, Risal Singh, P K Pasticha and H N Dutta. *Antarctic Expedition Report*, **13**, 71-78, 2001.
- IC3:** Atmospheric Warming over the Schirmacher Region of East Antarctica during February, 1996, H N Dutta, **Manoj K Srivastava**, N C Deb, Risal Singh, Kh Gajananda, Anubha Kaushik Ashok Kumar, Deepak Ojha, V B Gupta, Jaya Naithani, Victor Lagun. *Proc Summer Colloquium on the Physics of Weather and Climate (Chemistry-Climate Interactions)*, Trieste, Italy; May29-Jun16, 2001.

1999:

- IC2:** Acoustic Sounding As A Reliable Tool For Measuring Thermal Inversion And Stability Classes. H N Dutta, B S Gera, J P Pandey, Neeraj Saxena, **Manoj K Srivastava**, Gurbeer Singh and V K Ojha, Presented for the presentation at *Asian conference on Air-Pollution* held at Jaipur, India, Feb 28-Mar 2, 1999.
- IC1:** Antarctic Eco-System: A Sensitive Indicator Of Global Warming. H N Dutta, B S Gera, **Manoj K Srivastava** and Jaya Naithani, Presented at *Asian conference on Air-Pollution* at Jaipur during , India Feb 28-Mar 2, 1999.

1997:

J2: Land Surface Layer Characteristics During Monsoon at A Tropical station. D. V. Viswanadham and A.N.V. Satyanarayana, **Manoj K Srivastava**, *Pure and Applied Geophysics: 150 (1997); pp. 129-142. DOI: 10.1007/s000240050068.*

J1: Surface Layer Turbulent Kinetic Energy Budget over Kharagpur, D.V. Viswanadham and A.N.V. Satyanarayana, **Manoj K Srivastava** and Stuti Mishra, *Journal of Scientific Research (1997); Vol. 47; pp. 11-20.*

PhD: Surface Layer Studies In A Per-Humid Station In The Monsoon Trough Regime, **Manoj K Srivastava**, *Ph D Thesis*, Banaras Hindu University, Varanasi, India. 1997.

Other Publications::

1. 'Western Disturbance'; **Cover page, Employment News** (Highest selling news-paper in India; Ministry of IB, GOI publication), Feb, 17-21,2001.
2. One chapter in the report 'Indian Initial Communication to UNFCCC', submitted by GOI to UNFCCC, 2004.
3. Continual contribution in news papers for weather forecasting.
4. Editor, Departmental Publication
5. Managing Editor: Nava Gavesana

Research Supervision:**Ph D. Theses:**

1. Dr. Deewan Singh Bisht,
Topic: *Assessment of ionic composition of precipitation and physico-chemical properties of aerosols in northern part of India*
2. Dr. Bhanu Pratap Singh,
Topic: *Aerosol Behavior Over Indo- Gangeic Plains*
3. Dr. Deen Mani Lal
Topic: *The role of aerosol on changing climate over Indo-Gangetic Plains*
4. Dr. Rajeev Kumar Singh
Topic: *Estimation of Aerosol Direct Radiative Forcing (ADRF) for Various Conditions of the Atmosphere for An Indo-Gangetic Plain Location, Varanasi*

Graduate Theses:

- 1 Rajesh Kumar Singh Maurya, 2009
Topic: *Trends in Sunshine Duration over India during last 20 years*
- 2 Dharmendra Kumar, 2010
Topic: *Rainfall Trend Analysis For Eastern and Western Uttar Pradesh Subdivision of IMD during past century*
- 3 Satya Prakash Balooni, 2011
Topic: *Rainfall Trend Analysis For Bihar and Jharkhand Subdivisions of IMD during past century*
- 4 Rakesh Kumar Mahendra, 2011
Topic: *Rainfall Trend Analysis For Eastern and Western Madhya Pradesh Subdivision of IMD during past century*
- 5 Raman Kumar, 2012
Topic: *Inter comparison of Aerosols Properties at Two Global High Altitudes Station*
- 6 Krishna Kumar, 2012
Topic: *Study of Aerosol Optical Depth Over Kerela in view Of Indian Summer Monsoon onset*
- 7 Shivendra Ojha, 2013
Topic: *Study of Clearness Index for Year 2010 over Varanasi location of Eastern Indo Gangetic Plain*
- 8 Brijesh Kumar Pandey, 2013
Topic: *Comparison of Direct, Diffused and Global radiation with Aerosol optical depth: A case study for Varanasi*
- 9 Sunit Kumar Singh, 2014
Topic: *Black carbon particles at Varanasi during 2012*
- 10 Arun Kumar Dubey, 2014
Topic: *Recent changes in relative humidity and temperature during Indian Summer monsoon season*
- 11 Pramod Kumar Yadava, 2015
Topic: *Statistical analysis of Direct, Diffused and Global solar radiation (2010-2014) over Varanasi*
- 12 Krishna Yadav, 2015
Topic: *Weekday and weekend effect on Black carbon concentration at Varanasi during 2012*
- 13 Praveen Kumar, 2015
Topic: *Observed and modeled optical properties of Aerosols at Varanasi during 2011*
- 14 Prabhat Pandey, 2016
Topic: *Observed and modeled optical properties of Aerosols at Varanasi during 2012*
15. Amit Kumar, 2017

16. Topic: Intra-annual Black Carbon behavior at Varanasi during 2016
Rashida Bano, 2017
Topic: Measurement of Trace Gases in year 2015 over an urban location of Varanasi, India
17. Prashant Kumar, 2017
Topic: Composite study of HySPLIT backtrajectories for Varanasi during pre-monsoon, 2016.
18. Sandeep Kumar Suman, 2017
Topic: The study of Rainfall and Temperature variability over Varanasi
19. Bharat Ji Mehrotra, 2017
Topic: Forenoon-afternoon aerosol optical properties and resulting aerosol radiative forcing over Varanasi, India, during pre-monsoon 2016.