



ORCID: [0000-0001-8519-012X](https://orcid.org/0000-0001-8519-012X) (h-index =23; total publications: 62)

E-mail: sbikkina@bsip.res.in

https://www.researchgate.net/profile/Srinivas_Bikkina

D.O.B: 15-May-1984; Passport No: Z7734505, Nationality: Indian

Positions:

1. **Birbal Sahni Institute of Palaeosciences (BSIP):** Scientist-F, 30 June 2023 – till now
2. **SERB-Ramanujan Fellow**, CSIR-National Institute of Oceanography (NIO), Goa: 28 January 2021 – 28 July 2023
Advisor: Prof. Sunil Kumar Singh (sunil@nio.org)
Integrated Oceanographic Division (IOD), CSIR-National Institute of Oceanography (NIO), Dona Paula, Goa, 403 004, India
3. **JSPS Postdoctoral fellow, Chubu University, Japan:** August 2018 – September 2020;
Advisor: Prof. Kimitaka Kawamura (kkawamura@isc.chubu.ac.jp), Atmospheric Chemistry & Organic Geochemistry, Chubu Institute for Advanced Studies, Chubu University, 487-8501, Kasugai-Shi, Aichi, Japan
4. **Postdoctoral fellow, Stockholm University, Sweden:** September 2014 –August 2018
Advisor: Prof. Orjan Gustafsson (orjan.gustafsson@aces.su.se), Dept. of Environmental Science and Analytical Chemistry (ACES), Bolin Centre for Climate Research -“Research group is funded by ERC-Advanced Grant”, Worked on “*Source apportionment of particulate organic matter in the continental outflows to the tropical Indian Ocean-using radiocarbon and stable Carbon isotopic composition*”
5. **Postdoctoral fellow, Hokkaido University, Japan:** September 2013 – September 2014
Advisor: Prof. Kimitaka Kawamura (kkawamura@isc.chubu.ac.jp), Atmospheric & Organic Geochemistry group, Worked on the project, “Chemical Characterisation of Marine Organic Aerosols (e.g., dicarboxylic acids & their stable carbon isotopic composition) from the W. North Pacific & N. Indian Ocean”
6. **Postdoctoral fellow, Physical Research Laboratory, India;** July 2012 –August 2013;
Advisor: Prof. M. M. Sarin (sarin@prl.res.in), Geosciences Division, Worked on the project, “Chemical Characterisation of Light-Absorbing Carbonaceous (aka Brown Carbon) aerosols in the continental outflows to the N. Indian Ocean”

Academic Qualifications Education:

1. Ph.D. –Physical Research Laboratory (PRL)- **Advisor:** Prof. M.M. Sarin
Thesis title: Atmospheric deposition of N, P, and Fe to the Northern Indian Ocean (Year: 2013)
2. M.Sc. Chemistry (Marine Chemistry)- Andhra University, India-First Division (Year: 2006)
3. B.Sc. Physics, Chemistry, and Mathematics -Andhra University, India-First Division (Year: 2004)

Field of Research: (1) biomarkers-based organic geochemistry, (2) sedimentary black and blue carbon pools- $^{14}\text{C}/^{13}\text{C}$ -based isotope approach, (3) Sediment provenance based on the Sr-Nd isotope systematics.

Skills & Abilities: Source apportionment of particulate organic matter using an advanced clean lab microscale sample preparation of carbon isolates for the radiocarbon/stable carbon isotope measurements, Sunset EC-OC analyzer, Gas chromatography-Mass spectrometer and Flame ionization detector (GC-MS/FID), Total Carbon/Total Nitrogen -isotope ratio MS (TC/TN-irMS)-Compound Specific GC-irMS, Ion Chromatograph, Quadrupole Inductively Coupled Plasma (ICP)- Mass spectrometer (MS)/Atomic Emission Spectrometer(AES).

Scholarships & Awards:

- (1) SERB-Ramanujan Fellowship for the duration (2021-2026)

- (2) JSPS postdoctoral fellowship for the year 2018-2020
- (3) Ph.D. scholarship at Physical Research Laboratory (2007-2012)
- (4) Poster Presentation Award in a “5th International Symposium on Biological and Environmental Chemistry of DMS (P) and Related Compounds” held at the National Institute of Oceanography, Goa during 19-22nd October 2010
- (5) Partial financial support for the 5th International SOLAS summer school, Cargese, Corsica
- (6) Fully funded travel award grant, UK's first international GEOTRACES workshop.

Memberships:

1. Life member of Indian Aerosol Science and Technology Association (IASTA), id: IASTA-LM 835
2. Life member of Indian Society for Mass spectrometry (ISMAS), id: LM816
3. Life member of Japanese Society for Promotion of Science (JSPS)

Expert reviewer for Peer-reviewed journals:

Environmental Science Technology, Proceedings of National Academy of Sciences (PNAS), Atmospheric Chemistry and Physics, Environmental Pollution, Journal of Geophysical Research (JGR-Atmospheres), ACS Earth and Space Chemistry, Marine Chemistry, Atmospheric Environment, Journal of Atmospheric Chemistry, Atmospheric Research, Atmospheric Pollution Research, Journal of Earth System Science

Expeditions:

1. Onboard ORV Sagar Kanya (SK-254), Winter-Integrated Campaign of Aerosols, trace gases and radiation budget (W-ICARB): 27 December 2008-31 January 2009
2. Onboard R/V *Sindhu Sadhana*- 3-month-long GEOTRACES expedition to the South Indian Ocean (13 March 2021 – 8 June 2021)
3. 15th Indian Scientific Expedition to Arctic, Svalbard: 29 July-2 September 2024
4. 44th Indian Scientific Expedition to Antarctic, Schirmacher Oasis (Maitri): 20 November 2024 – 15 February 2025

Publications:

1. KV Reshma, K Sandeep, AK Warriar, **Srinivas Bikkina**, J Jose, GH Aravind, AS Yamuna, SJ Gayathri, Rajveer Sharma, Reji Srinivas, N Karunakara, K Sudeep Kumara (2025). “Paleorainfall during the past two millennia in the Western Ghats, south-western India: Evidence from a multi-proxy lacustrine sedimentary record”, *Quaternary International*, (IF = 1.8), 725, 109740, doi: 10.1016/j.quaint.2025.109740
2. Raj, Sam P., Puna Ram Sinha, Rohit Srivastava, **Srinivas Bikkina**, and Damu Bala Subrahmanyam (2024). "AeroMix v1.0.1: a Python package for modeling aerosol optical properties and mixing states", *Geoscientific Model Development* (IF = 4.9), 17, no. 16: 6379-6399
3. Damodararao Karri, **Srinivas Bikkina**, Sunil Kumar Singh, (2024). “Tracing the provenance of mineral dust over the northern and southern Indian Oceans during the GEOTRACES-India (GI-01, GI-02) expeditions”, *Geochimica et Cosmochimica Acta* (IF = 5.0), Vol. 366, Pages 141-153, ISSN 0016-7037, doi: 10.1016/j.gca.2023.12.025.
4. D. Paraskevopoulou, **Srinivas Bikkina**, G. Grivas, D.G. Kaskaoutis, M. Tsagkaraki, K. Tavernaraki, N. Mihalopoulos, (2023). “A direct method to quantify methanol-soluble organic carbon for brown carbon absorption studies”, *Methods X* (IF = 1.9), Volume 11, 102313, ISSN 2215-0161, doi: 10.1016/j.mex.2023.102313.
5. **Srinivas Bikkina**, Arvind Shukla, Sunil Kumar Singh, Damodara Rao Karri, Naman Deep Singh, Bisweswar Sahoo, “Link of the short-term temporal trends of Sr and Nd isotopic composition of aeolian dust over the Arabian Sea with the source emissions”, *Science of The Total Environment*, Vol. 892, 2023, 164680, doi: 10.1016/j.scitotenv.2023.164680.
6. Paraskevopoulou, D., D. G. Kaskaoutis, G. Grivas, **Srinivas Bikkina**, M. Tsagkaraki, I. M. Vrettou, K. Tavernaraki et al. "Brown carbon absorption and radiative effects under intense residential wood burning conditions in

Southeastern Europe: New insights into the abundance and absorptivity of methanol-soluble organic aerosols, *Science of The Total Environment*, 860 (2023): 160434.

7. Poonam Bikkina, **Srinivas Bikkina**, and Kimitaka Kawamura. "Role of aerosol liquid water content on the production of dicarboxylic acids in the dust-laden air masses over the Arabian Sea: Implications for heterogeneous chemistry." *Atmospheric Research* 289 (2023): 106743.
8. Diao, Xing, David Widory, Kirpa Ram, Lekhendra Tripathy, **Srinivas Bikkina**, Kimitaka Kawamura, Shaopeng Gao et al. "Atmospheric phosphorus and its geochemical cycling: Fundamentals, progress, and perspectives." *Earth-Science Reviews* (2023): 104492.
9. Buqing Xu, Gan Zhang, Örjan Gustafsson, Kimitaka Kawamura, Jun Li, August Andersson, **Srinivas Bikkina**, Bhagawati Kunwar, Ambarish Pokhrel, Guangcai Zhong, Shizhen Zhao, Jing Li, Chen Huang, Zheneng Cheng, Sanyuan Zhu, Ping'an Peng, and Guoying Sheng, "Large contribution of fossil-derived components to aqueous secondary organic aerosols in China", *Nature Communications*, 2022, doi: 10.1038/s41467-022-32863-3.
10. V.V.S.S. Sarma, B. Sridevi, Ashwini Kumar, **S. Bikkina**, V.R. Kumari, P. Bikkina, K. Yadav and V.D. Rao, "Impact of atmospheric anthropogenic nitrogen on new production in the northern Indian Ocean: Constrained based on satellite aerosol optical depth and particulate nitrogen levels, *Environmental Science: Process and Impacts*, 2022.
11. Poonam Bikkina, **Srinivas Bikkina**, Kimitaka Kawamura, "Tracing the biomass burning emissions over the Arabian Sea in winter season: Implications from the molecular distributions and relative abundances of sugar compounds", *Science of the Total Environment*, 2022, doi: 10.1016/j.scitotenv.2022.157643, 848 (2022) 157643.
12. Poonam Bikkina, **Srinivas Bikkina**, K. Kawamura, V. Sarma, D. K. Deshmukh. "Unraveling the sources of atmospheric organic aerosols over the Arabian Sea: Insights from the stable carbon and nitrogen isotopic composition", *Science of the Total Environment*, 2022, doi: 10.1016/j.scitotenv.2022.154260.
13. M. Mozammel Haque, Yanlin Zhang, **Srinivas Bikkina**, Meehye Lee, and Kimitaka Kawamura, "Regional heterogeneities in the emission of airborne primary sugar compounds and biogenic secondary organic aerosols in the East Asian outflow: Evidence for coal combustion as a source of levoglucosan, *Atmospheric Chemistry and Physics*, 2021, doi: 10.5194/acp-2021-431.
14. **Srinivas Bikkina**, Kimitaka Kawamura, Yosuke Sakamoto, Jun Hirokawa, "Low molecular weight dicarboxylic acids, oxocarboxylic acids and α -dicarbonyls as ozonolysis products of isoprene: Implication for the gaseous-phase formation of secondary organic aerosols, *Science of the Total Environment*, 769 (2021), 144472 (IF = 7.963).
15. Gourav Nayak, Ashwini Kumar, **Srinivas Bikkina**, Shani Tiwari, Suhas Shetty, and A.K. Sudheer, "Carbonaceous aerosols and their light absorption properties over the Bay of Bengal during continental outflow", 2021, *Environmental Science: Processes and Impacts*, doi: 10.1039/D1EM00347J.
16. **Srinivas Bikkina**, Kimitaka Kawamura, Manmohan Sarin, Eri Tachibana, "13C Probing of Ambient Photo-Fenton Reactions Involving Iron and Oxalic Acid: Implications for Oceanic Biogeochemistry", *ACS Earth and Space Chemistry*, 2020, doi: 10.1021/acsearthspacechem.0c00063 (IF = 3.418).
17. **Srinivas Bikkina**, M. M. Haque, Manmohan Sarin, K. Kawamura, "Tracing the relative significance of secondary organic aerosols from biomass burning plumes over Coastal Ocean using sugar compounds and stable carbon isotopes", *ACS Earth and Space Chemistry*, 2019, doi: 10.1021/acsearthspacechem.9b00140 (IF = 3.418)
18. Poonam Bikkina, Kimitaka Kawamura, **Srinivas Bikkina**, Hayato Yamaguchi, "Decadal Variations in Hydroxy Fatty Acids Over Chichijima Island in the North Pacific: Long-Term Seasonal Variability in Plant and Microbial Markers", *Journal of Geophysical Research-Atmospheres*, 2021, doi: 10.1029/2020JD033347 (IF = 4.26)
19. Poonam Bikkina, V.V.S.S. Sarma, Kimitaka Kawamura, and **Srinivas Bikkina**, "Dry-deposition of inorganic and organic nitrogen aerosols to the Arabian Sea: Sources, transport and biogeochemical significance in surface waters", *Marine Chemistry*, 2021, doi: 10.1016/j.marchem.2021.103938.
20. Sanjeev Dasari, August Andersson, Andreas Stohl, Nikolaos Evangelou, **Srinivas Bikkina**, Henry Holmstrand, Krishnakant Budhavant, Abdus Salam, and Örjan Gustafsson, "Source quantification of South Asian black carbon aerosols with isotopes and modeling", *Environmental Science and Technology*, doi: 10.1021/acs.est.0c02193, 2020 (IF = 7.864)

21. Poonam Bikkina , **Srinivas Bikkina**, Kimitaka Kawamura, A.K. Sudheer, G. Mahesh, and S. Kuswanth Kumar, “Evidence for the brown carbon absorption over the Bay of Bengal during the southwest monsoon season: a possible oceanic source”, *Environmental Science: Process and Impacts*, RSC journal, doi: 10.1039/d0em00111b (IF = 3.238).
22. Poonam Bikkina, V.V.S.S. Sarma, Kimitaka Kawamura, **Srinivas Bikkina**, Bhagawati Kunwar, Sherin C.K., “Chemical characterization of wintertime marine aerosols over the Arabian Sea: impact of marine sources and long-range transport, *Atmospheric Environment*, doi: 10.1016/j.atmosenv.2020.117749 (IF = 4.039).
23. Lujie Ren, Yiyun Wang, Kimitaka Kawamura, **Srinivas Bikkina**, Negar Haghipour, Lukas Wacker, Chandra Mouli Pavuluri, Zhimin Zhang, Siyao Yue, Yele Sun, Zifa Wang, Yanli Zhang, Xiaojuan Feng, Congqiang Liu, Timothy Eglinton, Pingqing Fu, “Source forensics of n-alkanes and n-fatty acids in urban aerosols using compound-specific radiocarbon/stable carbon isotopic composition”, *Environmental Research Letters*, 2020, doi: 10.1088/1748-9326/ab8333 (IF = 3.418)
24. Poonam Bikkina, Kimitaka Kawamura and **Srinivas Bikkina**., “Hydroxy Fatty Acids in Rainwater and Aerosols from Suburban Tokyo in Central Japan: The Impact of Long-Range Transport of Soil Microbes and Plant Waxes”, *ACS Earth and Space Chemistry*, 2021, doi: 10.1021/acsearthspacechem.0c00275 (IF = 3.4).
25. K. Budhavant, A. Andersson, H. Holmstrand, P. Bikkina, **Srinivas Bikkina**, S.K. Satheesh, and Örjan Gustafsson, “Enhanced light-absorption of black carbon in rainwater compared with aerosols over the northern Indian Ocean”, *Journal of Geophysical Research-Atmospheres*, doi: 10.1029/2019JD031246, 2020 (IF = 3.63).
26. Siyao Yue, **Srinivas Bikkina**, Meng Gao, Leonard A. Barrie, Kimitaka Kawamura, Pingqing Fu, “Sources and Radiative Absorption of Water-Soluble Brown Carbon in the High Arctic Atmosphere”, *Geophysical Research Letters*, doi: 10.1029/2019GL085318, 2019 (IF = 4.740).
27. Ito, A.; Myriokefalitakis, S.; Kanakidou, M.; Mahowald, N. M.; Scanza, R. A.; Hamilton, D. S.; Baker, A. R.; Jickells, T.; Sarin, M.; **Bikkina, S.**; Gao, Y.; Shelley, R. U.; Buck, C. S.; Landing, W. M.; Bowie, A. R.; Perron, M. M. G.; Guieu, C.; Meskhidze, N.; Johnson, M. S.; Feng, Y.; Kok, J. F.; Nenes, A.; Duce, R. A., Pyrogenic iron: The missing link to high iron solubility in aerosols. *Science Advances*, 2019, 5, (5), eaau7671, doi: 10.1126/sciadv.aau7671 (IF =13.116).
28. **Srinivas Bikkina**, and M. M. Sarin, “Brown Carbon in the continental outflow to the Northern Indian Ocean”, *Environmental Science: Process and Impacts*, 2019, 21, 970-987, doi: 10.1039/C9EM00089E (IF = 3.238)
29. P. Suntharalingam, Lauren M. Zamora, Hermann W. Bange, **Srinivas Bikkina**, Erik Buitenhuis, Maria Kanakidou, Jean-F. Lamarque, A. Landolfi, Laure Resplandy, M. M. Sarin, Sybil Seitzinger, Arvind Singh, “Anthropogenic nitrogen inputs and impacts on oceanic N₂O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach”, *Deep Sea Research-Part II*, 2019, doi: 10.1016/j.dsr.2.2019.03.007.
30. **Srinivas Bikkina**, A. Andersson, Elena Kirillova, Henry Holmstrand, Suresh Tiwari, D.S. Bisht, A.K. Srivastava, and Orjan Gustafsson. “Air quality in megacity Delhi affected by countryside biomass burning”, *Nature Sustainability*, 2019, doi: 10.1038/s41893-019-0219-0.
31. Poonam Bikkina, K. Kawamura, **Srinivas Bikkina**, Bhagawati Kunwar, Kiichiro Tanaka, and Keisuke Suzuki, “Hydroxy Fatty Acids in Remote Marine Aerosols over the Pacific Ocean: Impact of Biological Activity and Wind Speed”, *ACS Earth and Space Chemistry*, 2019, doi: 10.1021/acsearthspacechem.8b00161 (IF = 3.418).
32. Sanjeev Dasari, A. Andersson, **Srinivas Bikkina**, Henry Holmstrand, Krishnakant, S.K. Satheesh, John Backman, Eija Asmi, Jutta Kesti, Orjan Gustafsson, “Photochemical degradation of Brown Carbon aerosols using isotope forensics in the South Asian outflow”, *Science Advances*, 2019, doi: 10.1126/sciadv.aau8066 (IF =13.116)..
33. Krishnakant Budhavant, **Srinivas Bikkina**, August Andersson, Eija Asmi, John Backman, Jutta Kesti, H. Zahid, S. K. Satheesh & Örjan Gustafsson, "Anthropogenic fine aerosols dominate the wintertime regime over the northern Indian Ocean", *Tellus B*, 2018, doi: 10.1080/16000889.2018.1464871.
34. Stelios Myriokefalitakis, Akinori Ito, Maria Kanakidou, Athanasios Nenes, Maarten C. Krol, Natalie M. Mahowald, Rachel A. Scanza, Douglas S. Hamilton, Matthew S. Johnson, Nicholas Meskhidze, Jasper F. Kok, Cecile Guieu, Alex R. Baker, Timothy D. Jickells, Manmohan M. Sarin, **Srinivas Bikkina**, Rachel Shelley, Andrew Bowie,

- Morgane M. G. Perron, and Robert A. Duce, “Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study, *Biogeosciences*, 15, 6659–6684, 2018, doi: 10.5194/bg-15-6659-2018.
35. **Srinivas Bikkina**, Kimitaka Kawamura, and Manmohan Sarin, 2017, Secondary organic aerosol formation over Coastal Ocean: Inferences from atmospheric water-soluble low molecular weight organic compounds, *Environmental Science & Technology*, doi:10.1021/acs.est.6b0598 (IF = 7.864).
 36. **Srinivas Bikkina**, A. Andersson, K. Ram, M.M. Sarin, R. J. Sheesley, E. N. Kirillova, R. Rengarajan, A. K. Sudheer, Ö. Gustafsson, 2017, “Carbon isotope-constrained seasonality of carbonaceous aerosol sources from an urban location (Kanpur) in the Indo-Gangetic Plain”, *Journal of Geophysical Research: Atmospheres*, doi:10.1002/2016JD025634(IF=3.426).
 37. **Srinivas Bikkina**, K. Kawamura, and M.M. Sarin, 2016. Stable carbon and nitrogen isotopic composition of fine mode aerosols (PM_{2.5}) over the Bay of Bengal: impact of continental sources, *Tellus B*, 16, doi:10.3402/tellusb.v68.31518(IF=2.402).
 38. Kimitaka Kawamura and **Srinivas Bikkina**, 2016, A review of dicarboxylic acids and related compounds in atmospheric aerosols: Molecular distributions, sources and transformation, *Atmospheric Research*, doi: 10.1016/j.atmosres.2015.11.018 (Invited Review Article) (IF = 3.377)
 39. **Srinivas Bikkina**, A. Andersson, M. M. Sarin, R. J. Sheesley, E. Kirillova, R. Rengarajan, A. K. Sudheer, K. Ram, and Ö. Gustafsson, 2016. Dual carbon isotope characterization of total organic carbon in wintertime carbonaceous aerosols from northern India, *Journal of Geophysical Research-Atmospheres*, doi: 10.1002/2016JD024880 (IF = 3.426).
 40. **Srinivas Bikkina**, M.M. Sarin, Venkatesh Chinni, 2015. Atmospheric ²¹⁰Pb and anthropogenic trace metals in the continental outflow to the Bay of Bengal, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2015.10.044 (IF = 3.281).
 41. **Srinivas Bikkina**, Neeraj Rastogi, M.M. Sarin, Atinderpal Singh, and Darshan Singh, 2015. Mass absorption efficiency of light absorbing organic aerosols from source region of paddy-residue burning emissions in the Indo-Gangetic Plain, *Atmospheric Environment*, doi: 10.1016/j.atmosenv.2015.07.017 (IF = 3.281).
 42. **Srinivas Bikkina**, Kawamura, K., and Miyazaki, Y., 2015, Latitudinal distributions of atmospheric dicarboxylic acids, oxocarboxylic acids and α -dicarbonyls over the western North Pacific: Sources and formation pathways, *Journal of Geophysical Research*, 120, doi: 10.1002/2014JD022235 (IF = 3.426).
 43. **Srinivas Bikkina**, Kawamura, K., Imanishi, K., Boreddy, S.K.R., and Nojiri, Y., 2015, Seasonal and longitudinal distributions of atmospheric water-soluble dicarboxylic acids, oxocarboxylic acids and α -dicarbonyls over the North Pacific, *Journal of Geophysical Research*, doi: 10.1002/2014JD022972 (IF = 3.426).
 44. **Srinivas Bikkina** and M. M. Sarin, 2015, “Atmospheric supply of phosphorous to the Northern Indian Ocean, “*Current Science*”, Special section on sustainable phosphorous management, Vol. 108, No. 7, 1300-1305 (IF = 0.926)
 45. **Srinivas Bikkina**, Kimitaka Kawamura, Yuzo Miyazaki and Pingqing Fu, 2014 “High abundances of oxalic, azelaic, and glyoxylic acids and methylglyoxal in the open ocean with high biological activity: Implication for secondary OA formation from isoprene”, *Geophysical Research Letters*, doi: 10.1002/2014GL059913 (IF = 4.196).
 46. **Srinivas Bikkina**, M. M. Sarin and R. Rengarajan, “Atmospheric transport of mineral dust from the Indo-Gangetic Plain: Temporal variability, acid processing, and iron solubility”, “*Geochemistry Geophysics Geosystems*”, doi: 10.1002/2014GC005395 (IF = 2.923).
 47. **Srinivas Bikkina**, M. M. Sarin, and V.V.S.S. Sarma, 2014, “Atmospheric outflow of nutrients to the Bay of Bengal: Impact of anthropogenic sources”, *Journal of Marine Systems*, doi: 10.1016/j.jmarsys.2014.07.008, (IF = 2.508).
 48. **Srinivas Bikkina** and M. M. Sarin, “PM_{2.5}, EC and OC in atmospheric outflow from the Indo-Gangetic Plain: Temporal variability and aerosol organic carbon-to-organic mass conversion factor”, “*Science of the Total Environment*”, 487, 196 -205, doi: 10.1016/j.scitotenv.2014.04.002 (IF = 7.963).

49. **Srinivas Bikkina** and M.M. Sarin, 2014, "Brown carbon in atmospheric outflow from the Indo-Gangetic Plain: Mass absorption efficiency and temporal variability", *Atmospheric Environment*, 89, doi: 10.1016/j.atmosenv.2014.03.030 (IF = 3.281)
50. **Srinivas Bikkina** and M. M. Sarin, "Light absorbing organic aerosols (brown carbon) over the tropical Indian Ocean: Impact of biomass burning emissions", *Environmental Research Letters*, 8, 2013, doi:10.1088/1748-9326/8/4/044042 (IF = 3.906).
51. **Srinivas Bikkina** and M. M. Sarin, 2013, "Atmospheric deposition of N, P and Fe to the Northern Indian Ocean: Implications to C- and N-fixation, *Science of the Total Environment*, 456-457, 104-114, doi: 10.1016/j.scitotenv.2013.03.068 (IF = 7.963).
52. **Srinivas Bikkina** and M. M. Sarin 2013, "Atmospheric dry-deposition of mineral dust and anthropogenic trace metals to the Bay of Bengal", *Journal of Marine Systems*, 126, 56-68, doi:10.1016/j.jmarsys.2012.11.004 (IF = 2.508).
53. **Srinivas Bikkina** and M. M. Sarin, 2012, "Atmospheric pathways of Phosphorous to the Bay of Bengal: Contribution from anthropogenic sources and mineral dust, *Tellus B*, doi:10.3402/tellusb.v64i0.17174 (IF = 2.402).
54. **Srinivas Bikkina**, M. M. Sarin and V.V.S.S. Sarma, 2011, "Atmospheric Deposition of Inorganic and Organic Nitrogen to the Bay of Bengal: Impact of continental outflow", *Marine Chemistry*, 127, 170-179 doi:10.1016/j.marchem.2011.09.002 (IF = 2.735).
55. **Srinivas Bikkina**, M. M. Sarin, and Ashwini Kumar, 2011, "Impact of anthropogenic sources on aerosol iron solubility over the Bay of Bengal and the Arabian Sea", *Biogeochemistry*, doi: 10.1007/s10533-011-9680-1 (IF = 3.488).
56. **Srinivas Bikkina**, M. M. Sarin, Ashwini Kumar and A. K. Sudheer, 2011, "Impact of continental outflow on chemistry of atmospheric aerosols over tropical Bay of Bengal", *Atmos. Chem. Phys. Discuss.*, 11, 20667-20711, 2011
57. Ashwini Kumar, M.M. Sarin, **Srinivas Bikkina**, (2010) "Aerosol iron solubility over Bay of Bengal: Role of anthropogenic sources and chemical processing", *Marine Chemistry*, doi:10.1016/j.marchem.2010.04.005 (IF = 2.735).
58. M. M. Sarin, Ashwini Kumar, **Srinivas Bikkina**, A. K. Sudheer and N. Rastogi, 2011, "Anthropogenic sulphate aerosols and large Cl-deficit in marine atmospheric boundary layer of tropical Bay of Bengal, "*Journal of Atmospheric Chemistry*", 66, 1-2, pp 1-10, doi: 10.1007/s10874-011-9188-z (IF = 1.950).
59. Boreddy, S. K. R., K. Kawamura, **Srinivas Bikkina**, and M. M. Sarin (2016), Hygroscopic growth of particles nebulized from water-soluble extracts of PM_{2.5} aerosols over the Bay of Bengal: Influence of heterogeneity in air masses and formation pathways, *Science of The Total Environment*, 544, 661-669, doi:10.1016/j.scitotenv.2015.11.164 (IF = 7.963).
60. Poonam Tyagi, K. Kawamura, T. Kariya, **Srinivas Bikkina**, P. Fu, and M. Lee (2017), Tracing atmospheric transport of soil microorganisms and higher plant waxes in the East Asian outflow to the North Pacific Rim using hydroxy fatty acids: year-round observations at Gosan, Jeju Island, *Journal of Geophysical Research: Atmospheres*, doi:10.1002/2016JD025496 (IF = 3.3)
61. Poonam Tyagi, K. Kawamura, P. Fu, **Srinivas Bikkina**, Y. Kanaya, and Z. Wang (2016), Impact of biomass burning on soil microorganisms and plant metabolites: A view from molecular distributions of atmospheric hydroxy fatty acids over Mount Tai, *Journal of Geophysical Research: Biogeosciences*, doi: 10.1002/2016JG003324 (IF = 3.426).
62. Poonam Tyagi, Kimitaka Kawamura, **Srinivas Bikkina**, T. Mochizuki, and K. Aoki, 2016, Hydroxy fatty acids in snow pit samples from Mt. Tateyama in central Japan: implications for atmospheric transport of microorganisms and plant waxes associated with Asian dust, *Journal of Geophysical Research: Atmospheres*, doi: 10.1002/2016JD025340 (IF = 3.426).
63. S.K.R. Boreddy, Mochizuki, T., Kawamura, K., **Srinivas Bikkina**, Sarin, M. M., "Homologous series of low molecular weight (C 1-C 10) monocarboxylic acids, benzoic acid and hydroxy acids in fine-mode (PM 2.5) aerosols

over the Bay of Bengal: Influence of heterogeneity in air masses and formation pathways”, *Atmospheric Environment*, 2017, doi: 10.1016/j.atmosenv.2017.08.008.

64. R. Rengarajan, **Srinivas Bikkina**, and M.M. Sarin, (2010), “Atmospheric deposition of reactive nitrogen over continental sites and oceanic regions of India: A review”. **Proceedings of 5th International Nitrogen conference (N-2010)**, ISBN: 81-85992-17-7 (Invited Review Article).
65. Ravi Bhushan, **Srinivas Bikkina**, Jayati Chatterjee, S. P. Singh, Vineet Goswami, L. C. Thomas and A. K. Sudheer, "Evidence for enhanced chlorophyll-a levels in the Bay of Bengal during early north-east monsoon", 2017, "**Journal of Oceanography and Marine Science**", doi: 10.5897/JOMS2017.0144.

