

# Chandra Mouli Pavuluri

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,567  
citations

331670

21  
h-index

302126

39  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1403  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Molecular characterization of urban organic aerosol in tropical India: contributions of primary emissions and secondary photooxidation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2663-2689.  | 4.9  | 200       |
| 2  | Rainwater chemistry at a regional representative urban site: influence of terrestrial sources on ionic composition. <i>Atmospheric Environment</i> , 2005, 39, 999-1008.   | 4.1  | 173       |
| 3  | Water-soluble organic carbon, dicarboxylic acids, ketoacids, and $\alpha$ -dicarbonyls in the tropical Indian aerosols. <i>Journal of Geophysical Research</i> , 2010, 115, .  | 3.3  | 130       |
| 4  | Elevated nitrogen isotope ratios of tropical Indian aerosols from Chennai: Implication for the origins of aerosol nitrogen in South and Southeast Asia. <i>Atmospheric Environment</i> , 2010, 44, 3597-3604.  | 4.1  | 80        |
| 5  | Characteristics, seasonality and sources of carbonaceous and ionic components in the tropical aerosols from Indian region. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8215-8230.   | 4.9  | 79        |
| 6  | Evidence for $^{13}\text{C}$ enrichment in oxalic acid via iron catalyzed photolysis in aqueous phase. <i>Geophysical Research Letters</i> , 2012, 39, .   | 4.0  | 76        |
| 7  | A study on trace elemental composition of atmospheric aerosols at a semi-arid urban site using ICP-MS technique. <i>Atmospheric Environment</i> , 2006, 40, 136-146.   | 4.1  | 72        |
| 8  | New Directions: Need for better understanding of plastic waste burning as inferred from high abundance of terephthalic acid in South Asian aerosols. <i>Atmospheric Environment</i> , 2010, 44, 5320-5321.   | 4.1  | 56        |
| 9  | Stable carbon isotopic compositions of total carbon, dicarboxylic acids and glyoxylic acid in the tropical Indian aerosols: Implications for sources and photochemical processing of organic aerosols. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3  | 54        |
| 10 | A study on major inorganic ion composition of atmospheric aerosols at Tirupati. <i>Journal of Hazardous Materials</i> , 2003, 96, 217-228.   | 12.4 | 43        |
| 11 | Enhanced modern carbon and biogenic organic tracers in Northeast Asian aerosols during spring/summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2362-2371.  | 3.3  | 43        |
| 12 | Why airborne transmission hasn't been conclusive in case of COVID-19? An atmospheric science perspective. <i>Science of the Total Environment</i> , 2021, 773, 145525.   | 8.0  | 42        |
| 13 | Laboratory photochemical processing of aqueous aerosols: formation and degradation of dicarboxylic acids, oxocarboxylic acids and $\beta$ -dicarbonyls. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7999-8012.                                      | 4.9  | 41        |
| 14 | Atmospheric chemistry of nitrogenous aerosols in northeastern Asia: biological sources and secondary formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9883-9896.  | 4.9  | 40        |
| 15 | Large contributions of biogenic and anthropogenic sources to fine organic aerosols in Tianjin, North China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 117-137.  | 4.9  | 36        |
| 16 | Chemical Composition of Atmospheric Aerosol (PM <sub>10</sub> ) at a Semi-arid Urban Site: Influence of Terrestrial Sources. <i>Environmental Monitoring and Assessment</i> , 2006, 117, 291-305.  | 2.7  | 33        |
| 17 | Molecular distributions and compound-specific stable carbon isotopic compositions of lipids in wintertime aerosols from Beijing. <i>Scientific Reports</i> , 2016, 6, 27481.   | 3.3  | 32        |
| 18 | Enrichment of $^{13}\text{C}$ in diacids and related compounds during photochemical processing of aqueous aerosols: New proxy for organic aerosols aging. <i>Scientific Reports</i> , 2016, 6, 36467.  | 3.3  | 30        |

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|----|---|------|-----------|
| 19 | Nitrogen Speciation and Isotopic Composition of Aerosols Collected at Himalayan Forest (3326 m) Tj ETQq1 1 0.784314 rgBT /Overlook<br>12247-12256.  | 10.0 | 27        |
| 20 | Measurement report: Optical properties and sources of water-soluble brown carbon in Tianjin, North China – insights from organic molecular compositions. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6449-6470.  | 4.9  | 25        |
| 21 | Time-resolved distributions of bulk parameters, diacids, ketoacids and $\hat{\pm}$ -dicarbonyls and stable carbon and nitrogen isotope ratios of TC and TN in tropical Indian aerosols: Influence of land/sea breeze and secondary processes. <i>Atmospheric Research</i> , 2015, 153, 188-199. | 4.1  | 23        |
| 22 | Implications for biomass/coal combustion emissions and secondary formation of carbonaceous aerosols in North China. <i>RSC Advances</i> , 2018, 8, 38108-38117.   | 3.6  | 17        |
| 23 | Molecular and spatial distributions of dicarboxylic acids, oxocarboxylic acids, and $\hat{\pm}$ -dicarbonyls in marine aerosols from the South China Sea to the eastern Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6841-6860.   | 4.9  | 17        |
| 24 | Characteristics, seasonality and sources of inorganic ions and trace metals in North-east Asian aerosols. <i>Environmental Chemistry</i> , 2015, 12, 338.   | 1.5  | 16        |
| 25 | Determination of zinc, copper, lead and cadmium in some medicinally important leaves by differential pulse anodic stripping analysis. <i>Journal of Trace Elements in Medicine and Biology</i> , 2003, 17, 79-83.   | 3.0  | 15        |
| 26 | Assessment of aerosol (PM10) and trace elemental interactions by Taguchi experimental design approach. <i>Ecotoxicology and Environmental Safety</i> , 2008, 69, 562-567.   | 6.0  | 15        |
| 27 | Urea and thiourea derivatives of 3-(trifluoromethyl)-5,6,7,8-tetrahydro-[1, 2, 4]triazolo[4,3-a]pyrazine: Synthesis, characterization, antimicrobial activity and docking studies. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 922-932.                         | 1.6  | 15        |
| 28 | Time-resolved variations in the distributions of inorganic ions, carbonaceous components, dicarboxylic acids and related compounds in atmospheric aerosols from Sapporo, northern Japan during summertime. <i>Atmospheric Environment</i> , 2012, 62, 622-630.                                  | 4.1  | 14        |
| 29 | Differential Pulse Anodic Stripping Voltammetric Determination of Pb, Cd, Cu, and Zn in Air, Diet, and Blood Samples: Exposure Assessment. <i>Analytical Letters</i> , 2005, 38, 463-475.   | 1.8  | 13        |
| 30 | Monitoring of air pollution in Indian metropolitan cities: modelling and quality indexing. <i>International Journal of Environment and Pollution</i> , 2004, 21, 365.   | 0.2  | 12        |
| 31 | Seasonal Distributions and Stable Carbon Isotope Ratios of Water-Soluble Diacids, Oxoacids, and $\hat{\pm}$ -Dicarbonyls in Aerosols from Sapporo: Influence of Biogenic Volatile Organic Compounds and Photochemical Aging. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1220-1230.         | 2.7  | 12        |
| 32 | Source forensics of n-alkanes and n-fatty acids in urban aerosols using compound specific radiocarbon/stable carbon isotopic composition. <i>Environmental Research Letters</i> , 2020, 15, 074007.   | 5.2  | 12        |
| 33 | Characterization of Secondary Organic Aerosol Tracers over Tianjin, North China during Summer to Autumn. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2339-2352.   | 2.7  | 11        |
| 34 | Seasonal changes in TC and WSOC and their $^{13}\text{C}$ isotope ratios in Northeast Asian aerosols: land surface – biosphere – atmosphere interactions. <i>Acta Geochimica</i> , 2017, 36, 355-358.   | 1.7  | 10        |
| 35 | Molecular Distributions of Diacids, Oxoacids, and $\hat{\pm}$ -Dicarbonyls in Summer – and Winter – Time Fine Aerosols From Tianjin, North China: Emissions From Combustion Sources and Aqueous Phase Secondary Formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, . | 3.3  | 10        |
| 36 | Characteristics, Seasonality, and Secondary Formation Processes of Diacids and Related Compounds in Fine Aerosols During Warm and Cold Periods: Year – Round Observations at Tianjin, North China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035435.            | 3.3  | 10        |

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|----|---|-----|-----------|
| 37 | Seasonal Characteristics of Biogenic Secondary Organic Aerosols Over Chichijima Island in the Western North Pacific: Impact of Biomass Burning Activity in East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032987.             | 3.3 | 7         |
| 38 | Large contribution of fine carbonaceous aerosols from municipal waste burning inferred from distributions of diacids and fatty acids. <i>Environmental Research Communications</i> , 2019, 1, 071005.   | 2.3 | 5         |
| 39 | Compound-Specific Stable Carbon Isotope Ratios of Terrestrial Biomarkers in Urban Aerosols from Beijing, China. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1896-1904.  | 2.7 | 5         |
| 40 | An efficient microwave-promoted three-component synthesis of thiazolo[3,2-a]pyrimidines catalyzed by SiO <sub>2</sub> •ZnBr <sub>2</sub> and antimicrobial activity evaluation. <i>Chemistry of Heterocyclic Compounds</i> , 2019, 55, 266-274.                     | 1.2 | 5         |
| 41 | Year-round observations of stable carbon isotopic composition of carboxylic acids, oxoacids and $\hat{\pm}$ -Dicarbonyls in fine aerosols at Tianjin, North China: Implications for origins and aging. <i>Science of the Total Environment</i> , 2022, 834, 155385. | 8.0 | 5         |
| 42 | Molecular characterization and spatial distribution of dicarboxylic acids and related compounds in fresh snow in China. <i>Environmental Pollution</i> , 2021, 291, 118114.   | 7.5 | 3         |
| 43 | Organic Aerosols in South and East Asia: Composition and Sources. <i>Springer Remote Sensing/photogrammetry</i> , 2018, , 379-408.  | 0.4 | 1         |
| 44 | Characteristics and seasonality of trace elements in fine aerosols from Tianjin, North China during 2018-2019. <i>Environmental Advances</i> , 2022, 9, 100263.   | 4.8 | 1         |