

Tarun Gupta

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163
papers

5,414
citations

34
h-index

68
g-index

174
ext. papers

7,065
ext. citations

6
avg, IF

5.96
L-index

#	Paper	IF	Citations
163	Emerging Major Role of Organic Aerosols in Explaining the Occurrence, Frequency, and Magnitude of Haze and Fog Episodes during Wintertime in the Indo Gangetic Plain.. <i>ACS Omega</i> , 2022 , 7, 1575-1584	3.9	0
162	Insights into sources and atmospheric processing at two polluted urban locations in the Indo-Gangetic plains from stable carbon and nitrogen isotope ratios and polycyclic aromatic hydrocarbons in ambient PM2.5. <i>Atmospheric Environment</i> , 2022 , 271, 118904	5.3	0
161	Multiple site ground-based evaluation of carbonaceous aerosol mass concentrations retrieved from CAMS and MERRA-2 over the Indo-Gangetic Plain. <i>Environmental Science Atmospheres</i> , 2021 , 1, 577-590		3
160	Lipid peroxidation index of particulate matter: Novel metric for quantifying intrinsic oxidative potential and predicting toxic responses. <i>Redox Biology</i> , 2021 , 48, 102189	11.3	1
159	Spatial, temporal, and demographic patterns in prevalence of chewing tobacco use in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019. <i>Lancet Public Health</i> , 2021 , 6, e482-e499	22.4	11
158	Meteorological Influence and Chemical Compositions of Atmospheric Particulate Matters in an Indian Urban Area. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 1686-1694	3.2	1
157	Seasonal bioaerosol load and statistical analysis within different microenvironments of an academic institute situated in the Indo-Gangetic Plain. <i>Aerobiologia</i> , 2021 , 37, 663	2.4	0
156	Spatial, temporal, and demographic patterns in prevalence of smoking tobacco use and attributable disease burden in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019. <i>Lancet</i> , 2021 , 397, 2337-2360	40	97
155	Absorption and radiative characteristics of brown carbon aerosols during crop residue burning in the source region of Indo-Gangetic Plain. <i>Atmospheric Research</i> , 2021 , 249, 105285	5.4	7
154	Understanding the origin of carbonaceous aerosols during periods of extensive biomass burning in northern India. <i>Environmental Pollution</i> , 2021 , 270, 116082	9.3	7
153	Absorption properties and forcing efficiency of light-absorbing water-soluble organic aerosols: Seasonal and spatial variability. <i>Environmental Pollution</i> , 2021 , 272, 115932	9.3	9
152	Chemical characterization, source identification and health risk assessment of polycyclic aromatic hydrocarbons in ambient particulate matter over central Indo-Gangetic Plain. <i>Urban Climate</i> , 2021 , 35, 100755	6.8	4
151	Chemical characterization and stable nitrogen isotope composition of nitrogenous component of ambient aerosols from Kanpur in the Indo-Gangetic Plains. <i>Science of the Total Environment</i> , 2021 , 763, 143032	10.2	4
150	Prediction of Hospital Visits for Respiratory Morbidity Due to Air Pollutants in Lucknow. <i>Energy, Environment, and Sustainability</i> , 2021 , 231-252	0.8	
149	Health and economic impact of air pollution in the states of India: the Global Burden of Disease Study 2019. <i>Lancet Planetary Health</i> , 2021 , 5, e25-e38	9.8	78
148	Source Contribution of Firecrackers Burst vs. Long-Range Transport of Biomass Burning Emissions Over an Urban Background. <i>Frontiers in Sustainable Cities</i> , 2021 , 2,	2.2	2
147	Wintertime chemical characteristics of aerosol and their role in light extinction during clear and polluted days in rural Indo Gangetic plain. <i>Environmental Pollution</i> , 2021 , 282, 117034	9.3	5

146	Diesel fuel particulate emission control using low-cost catalytic materials. <i>Fuel</i> , 2021 , 302, 121157	7.1	1
145	Improved method to apportion optical absorption by black and brown carbon under the influence of haze and fog at Lumbini, Nepal, on the Indo-Gangetic Plains. <i>Environmental Pollution</i> , 2020 , 263, 114640	9.3	16
144	Toxicity of exhaust particulates and gaseous emissions from gasohol (ethanol blended gasoline)-fuelled spark ignition engines. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1540-1553	4.3	6
143	Chemical Speciation and Source Apportionment of Airborne Coarse Particles at Kanpur. <i>Energy, Environment, and Sustainability</i> , 2020 , 131-141	0.8	0
142	In-situ Measurements of Aerosols from the High-Altitude Location in the Central Himalayas. <i>Energy, Environment, and Sustainability</i> , 2020 , 59-89	0.8	1
141	Scavenging efficiency of water soluble inorganic and organic aerosols by fog droplets in the Indo Gangetic Plain. <i>Atmospheric Research</i> , 2020 , 235, 104767	5.4	10
140	Wintertime hygroscopic growth factors (HGFs) of accumulation mode particles and their linkage to chemical composition in a heavily polluted urban atmosphere of Kanpur at the Centre of IGP, India: Impact of ambient relative humidity. <i>Science of the Total Environment</i> , 2020 , 704, 135363	10.2	6
139	A User-Centric Design Thinking Approach for Advancement in Off-Line PM Air Samplers: Current Status and Future Directions. <i>Aerosol Science and Engineering</i> , 2020 , 4, 239-259	1.6	
138	Instrumental Variable Analysis in Atmospheric and Aerosol Chemistry. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	3
137	Absorption characteristics of aerosols over the central Himalayas and its adjacent foothills. <i>Atmospheric Research</i> , 2020 , 233, 104718	5.4	3
136	Investigation of size distribution and mass characteristics of ambient aerosols and their combustion sources during post-monsoon in northern India. <i>Atmospheric Pollution Research</i> , 2020 , 11, 170-178	4.5	11
135	HRTEM evaluation of primary soot particles originated in a small-bore biofuel compression-ignition engine. <i>Applied Thermal Engineering</i> , 2019 , 159, 113899	5.8	13
134	Chemical composition of diesel particulate matter and its control. <i>Catalysis Reviews - Science and Engineering</i> , 2019 , 61, 447-515	12.6	7
133	Effect of aqueous-phase processing on the formation and evolution of organic aerosol (OA) under different stages of fog life cycles. <i>Atmospheric Environment</i> , 2019 , 206, 60-71	5.3	16
132	Nanostructure characterization of soot particles from biodiesel and diesel spray flame in a constant volume combustion chamber. <i>Fuel</i> , 2019 , 235, 130-149	7.1	29
131	In-Cylinder Spray and Combustion Investigations in a Heavy-Duty Optical Engine Fueled With Waste Cooking Oil, Jatropha, and Karanja Biodiesels. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	12
130	Influence of regional and long range transport air masses on fog water composition, contribution and toxicological response at Indo Gangetic Plain. <i>Atmospheric Environment</i> , 2019 , 214, 116888	5.3	8
129	Preparation of mesoporous carbon composites and its highly enhanced removal capacity of toxic pollutants from air. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103271	6.8	4

128	Performance and emission evaluation of a small-bore biodiesel compression-ignition engine. <i>Energy</i> , 2019 , 183, 971-982	7.9	19
127	High Loadings of Water-Soluble Oxalic Acid and Related Compounds in PM _{2.5} Aerosols in Eastern Central India: Influence of Biomass Burning and Photochemical Processing. <i>Aerosol and Air Quality Research</i> , 2019 , 9, 2625-2644	4.6	6
126	Exposure Science: Monitoring Environmental Contaminants 2019 , 833-839		1
125	Deposition modeling of ambient aerosols in human respiratory system: Health implication of fine particles penetration into pulmonary region. <i>Atmospheric Pollution Research</i> , 2019 , 10, 334-343	4.5	24
124	The impact of air pollution on deaths, disease burden, and life expectancy across the states of India: the Global Burden of Disease Study 2017. <i>Lancet Planetary Health</i> , 2019 , 3, e26-e39	9.8	335
123	Image-Based Flame Temperature and Soot Analysis of Biofuel Spray Combustion. <i>Energy, Environment, and Sustainability</i> , 2019 , 41-54	0.8	1
122	Atmospheric Emissions from Thermal (Coal-Fired) Power Plants and Associated Environmental Impacts. <i>Energy, Environment, and Sustainability</i> , 2019 , 53-72	0.8	2
121	Comparative compression ignition engine performance, combustion, and emission characteristics, and trace metals in particulates from Waste cooking oil, Jatropha and Karanja oil derived biodiesels. <i>Fuel</i> , 2019 , 236, 1366-1376	7.1	72
120	Study of temporal variability and mass closure of PM _{2.5} and its chemical constituents during weak south-west monsoon. <i>Atmospheric Pollution Research</i> , 2018 , 9, 864-870	4.5	8
119	Toxicity and mutagenicity of exhaust from compressed natural gas: Could this be a clean solution for megacities with mixed-traffic conditions?. <i>Environmental Pollution</i> , 2018 , 239, 499-511	9.3	22
118	Risk assessment of submicron PM-bound hexavalent chromium during wintertime. <i>Human and Ecological Risk Assessment (HERA)</i> , 2018 , 24, 1453-1463	4.9	9
117	Variation of particle number and mass concentration and associated mass deposition during Diwali festival. <i>Urban Climate</i> , 2018 , 24, 1027-1036	6.8	10
116	Dicarboxylic acids and levoglucosan in aerosols from Indo-Gangetic Plain: Inferences from day night variability during wintertime. <i>Science of the Total Environment</i> , 2018 , 624, 451-460	10.2	21
115	Introduction to Air Pollution and Its Control. <i>Energy, Environment, and Sustainability</i> , 2018 , 3-7	0.8	5
114	Biodiesel Soot Characteristics. <i>Energy, Environment, and Sustainability</i> , 2018 , 45-55	0.8	2
113	Techniques to Control Emissions from a Diesel Engine. <i>Energy, Environment, and Sustainability</i> , 2018 , 57-72	0.8	8
112	Chemical characterization and quantitative assessment of source-specific health risk of trace metals in PM at a road site of Delhi, India. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 8747-8764	5.1	30
111	Chemical composition and source-apportionment of sub-micron particles during wintertime over Northern India: New insights on influence of fog-processing. <i>Environmental Pollution</i> , 2018 , 233, 81-91	9.3	41

110	Performance evaluation of a biodiesel fuelled transportation engine retrofitted with a non-noble metal catalysed diesel oxidation catalyst for controlling unregulated emissions. <i>Journal of Hazardous Materials</i> , 2018 , 344, 615-625	12.8	9
109	Realtime chemical characterization of post monsoon organic aerosols in a polluted urban city: Sources, composition, and comparison with other seasons. <i>Environmental Pollution</i> , 2018 , 232, 310-321	9.3	16
108	Review of Experimental and Computational Studies on Spray, Combustion, Performance, and Emission Characteristics of Biodiesel Fueled Engines. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	35
107	Fast and efficient removal of Toluene, Ethylbenzene and O-Xylene from aqueous phase by functionalized carbon micro/nano composites. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4917-4926	6.8	1
106	Study of Environmental Particle Levels, Its Effects on Lung Deposition and Relationship With Human Behaviour. <i>Energy, Environment, and Sustainability</i> , 2018 , 77-91	0.8	2
105	Stable Carbon Isotope and Bulk Composition of Wintertime Aerosols from Kanpur. <i>Energy, Environment, and Sustainability</i> , 2018 , 209-220	0.8	0
104	Bioaerosols Over the Indo-Gangetic Plain: Influence of Biomass Burning Emission and Ambient Meteorology. <i>Energy, Environment, and Sustainability</i> , 2018 , 93-121	0.8	1
103	Light absorption characteristics of brown carbon during foggy and non-foggy episodes over the Indo-Gangetic Plain. <i>Atmospheric Pollution Research</i> , 2018 , 9, 494-501	4.5	34
102	Mutagenicity and Cytotoxicity of Particulate Matter Emitted from Biodiesel-Fueled Engines. <i>Environmental Science & Technology</i> , 2018 , 52, 14496-14507	10.3	26
101	Wintertime study on bulk composition and stable carbon isotope analysis of ambient aerosols from North India. <i>Journal of Aerosol Science</i> , 2018 , 126, 231-241	4.3	7
100	Estimates of the global, regional, and national morbidity, mortality, and aetiologies of lower respiratory infections in 195 countries, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. <i>Lancet Infectious Diseases, The</i> , 2018 , 18, 1191-1210	25.5	534
99	The burden of chronic respiratory diseases and their heterogeneity across the states of India: the Global Burden of Disease Study 1990-2016. <i>The Lancet Global Health</i> , 2018 , 6, e1363-e1374	13.6	122
98	Measuring performance on the Healthcare Access and Quality Index for 195 countries and territories and selected subnational locations: a systematic analysis from the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2018 , 391, 2236-2271	40	381
97	One year record of bioaerosols and particles concentration in Indo-Gangetic Plain: Implications of biomass burning emissions to high-level of endotoxin exposure. <i>Environmental Pollution</i> , 2017 , 224, 98-103	10.3	37
96	Introduction to Biofuels. <i>Green Energy and Technology</i> , 2017 , 3-6	0.6	6
95	Development of an Indigenous Sensor for Sub-micron Aerosol Monitoring in India 2017 , 433-451		
94	A qualitative correlation between engine exhaust particulate number and mass emissions. <i>Fuel</i> , 2017 , 202, 241-245	7.1	12
93	Role of ammonium ion and transition metals in the formation of secondary organic aerosol and metallo-organic complex within fog processed ambient deliquescent submicron particles collected in central part of Indo-Gangetic Plain. <i>Chemosphere</i> , 2017 , 181, 725-737	8.4	8

92	Effects of organic aerosol loading and fog processing on organic aerosol volatility. <i>Journal of Aerosol Science</i> , 2017 , 105, 73-83	4.3	6
91	Water soluble organic aerosols in indo gangetic plain (IGP): Insights from aerosol mass spectrometry. <i>Science of the Total Environment</i> , 2017 , 599-600, 1573-1582	10.2	24
90	Investigations on air-fuel mixing and flame characteristics of biodiesel fuels for diesel engine application. <i>Applied Energy</i> , 2017 , 206, 1203-1213	10.7	26
89	Removal of hexavalent chromium upon interaction with biochar under acidic conditions: mechanistic insights and application. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 16786-16797 ⁵¹		59
88	Near Nozzle Flow and Atomization Characteristics of Biodiesel Fuels 2017 ,		2
87	Nations within a nation: variations in epidemiological transition across the states of India, 1990-2016 in the Global Burden of Disease Study. <i>Lancet, The</i> , 2017 , 390, 2437-2460	40	391
86	Morphology, Mineralogy and Mixing of Individual Atmospheric Particles Over Kanpur (IGP): Relevance of Homogeneous Equivalent Sphere Approximation in Radiative Models. <i>Mapan - Journal of Metrology Society of India</i> , 2017 , 32, 229-241	1	12
85	Chemical characterization of PM aerosol in Delhi and source apportionment using positive matrix factorization. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 445-462	5.1	62
84	Trace metals and ions in particulates emitted by biodiesel fuelled engine. <i>Fuel</i> , 2017 , 188, 603-609	7.1	31
83	Effectiveness of non-noble metal based diesel oxidation catalysts on particle number emissions from diesel and biodiesel exhaust. <i>Science of the Total Environment</i> , 2017 , 574, 1512-1520	10.2	30
82	Photocatalytic reduction of organic pollutant under visible light by green route synthesized gold nanoparticles. <i>Journal of Environmental Sciences</i> , 2017 , 55, 236-246	6.4	65
81	Synergistic effect in absorption properties of brown carbon and elemental carbon over IGP during weak south-west monsoon. <i>Aerosol Science and Engineering</i> , 2017 , 1, 138-149	1.6	15
80	Laboratory to Market: A Case Study. <i>IITK Directions</i> , 2017 , 15-21	0.5	
79	The diurnal variability of sulfate and nitrate aerosols during wintertime in the Indo-Gangetic Plain: implications for heterogeneous phase chemistry. <i>RSC Advances</i> , 2016 , 6, 89879-89887	3.7	22
78	Chemical characteristics of aerosol and rain water during an El Niño and PDO influenced Indian summer monsoon. <i>Atmospheric Environment</i> , 2016 , 145, 192-200	5.3	41
77	Characterization of organic residues of size-resolved fog droplets and their atmospheric implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4317-4332	4.4	23
76	Chemical characterisation and source apportionment of PM1 during massive loading at an urban location in Indo-Gangetic Plain: impact of local sources and long-range transport. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2016 , 68, 30659	3.3	41
75	Identification and quantification of indoor air pollutant sources within a residential academic campus. <i>Science of the Total Environment</i> , 2016 , 569-570, 46-52	10.2	25

74	Development of low cost mixed metal oxide based diesel oxidation catalysts and their comparative performance evaluation. <i>RSC Advances</i> , 2016 , 6, 55884-55893	3.7	15
73	Annual trends in occurrence of submicron particles in ambient air and health risk posed by particle bound metals. <i>Chemosphere</i> , 2016 , 146, 582-90	8.4	91
72	Effect through inhalation on human health of PM1 bound polycyclic aromatic hydrocarbons collected from foggy days in northern part of India. <i>Journal of Hazardous Materials</i> , 2016 , 306, 257-268	12.8	47
71	Source apportionment and risk assessment of PM1 bound trace metals collected during foggy and non-foggy episodes at a representative site in the Indo-Gangetic plain. <i>Science of the Total Environment</i> , 2016 , 550, 80-94	10.2	25
70	Application of waste cooking oil (WCO) biodiesel in a compression ignition engine. <i>Fuel</i> , 2016 , 176, 20-31	7.1	60
69	Role of transition metals with water soluble organic carbon in the formation of secondary organic aerosol and metallo-organics in PM1 sampled during post monsoon and pre-winter time. <i>Journal of Aerosol Science</i> , 2016 , 94, 56-69	4.3	21
68	Recommendations for calibration factors for a photo-reference method for aerosol black carbon concentrations. <i>Atmospheric Pollution Research</i> , 2016 , 7, 75-81	4.5	2
67	Seasonal differences in aerosol abundance and radiative forcing in months of contrasting emissions and rainfall over northern South Asia. <i>Atmospheric Environment</i> , 2016 , 125, 512-523	5.3	11
66	An Experimental Investigation on Spray Characteristics of Waste Cooking Oil, Jatropha, and Karanja Biodiesels in a Constant Volume Combustion Chamber 2016 ,		1
65	Composition and source apportionment of PM1 at urban site Kanpur in India using PMF coupled with CBPF. <i>Atmospheric Research</i> , 2016 , 178-179, 506-520	5.4	39
64	Chemical composition and characteristics of ambient aerosols and rainwater residues during Indian summer monsoon: Insight from aerosol mass spectrometry. <i>Atmospheric Environment</i> , 2016 , 136, 144-155	5.3	28
63	Combined effects of organic aerosol loading and fog processing on organic aerosols oxidation, composition, and evolution. <i>Science of the Total Environment</i> , 2016 , 573, 690-698	10.2	21
62	Determining the relationship between chemical composition and size, shape and effective density of airborne fine particles through concurrent use of inertial and optical based measurements. <i>Particuology</i> , 2016 , 28, 93-101	2.8	5
61	Physico-chemical speciation of particulates emanating from Karanja biodiesel fuelled automotive engine. <i>Fuel</i> , 2015 , 162, 84-90	7.1	17
60	The discoloration of the Taj Mahal due to particulate carbon and dust deposition. <i>Environmental Science & Technology</i> , 2015 , 49, 808-12	10.3	35
59	An evaluation of the emission profile for two-wheelers at a traffic junction. <i>Particuology</i> , 2015 , 18, 112-118	1.8	4
58	Spatial distribution and the extent of heavy metal and hexavalent chromium pollution in agricultural soils from Jajmau, India. <i>Environmental Earth Sciences</i> , 2015 , 73, 3565-3577	2.9	34
57	Source apportionment of carbonaceous fine particulate matter (PM 2.5) in two contrasting cities across the Indo-Gangetic Plain. <i>Atmospheric Pollution Research</i> , 2015 , 6, 398-405	4.5	60

56	Real-time measurements of ambient aerosols in a polluted Indian city: Sources, characteristics, and processing of organic aerosols during foggy and nonfoggy periods. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 9006-9019	4.4	53
55	Speciation of atmospheric polycyclic aromatic hydrocarbons (PAHs) present during fog time collected submicron particles. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 12458-68	5.1	19
54	Emission profiling of diesel and gasoline cars at a city traffic junction. <i>Particuology</i> , 2015 , 18, 186-193	2.8	25
53	Particulate emissions from biodiesel fuelled CI engines. <i>Energy Conversion and Management</i> , 2015 , 94, 311-330	10.6	80
52	Particulate Characterization and Size Distribution in the Exhaust of a Gasoline Homogeneous Charge Compression Ignition Engine. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 504-516	4.6	25
51	Development and Laboratory Performance Evaluation of a Variable Configuration PM1/PM2.5 Impaction-Based Sampler. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 768-775	4.6	12
50	Development and Field Evaluation of a Multiple Slit Nozzle-Based High Volume PM2.5 Inertial Impactor Assembly (HVIA). <i>Aerosol and Air Quality Research</i> , 2015 , 15, 1188-1200	4.6	16
49	An overview of the physico-chemical characteristics of dust at Kanpur in the central Indo-Gangetic basin. <i>Atmospheric Environment</i> , 2014 , 97, 386-396	5.3	25
48	Personal exposure measurement of students to various microenvironments inside and outside the college campus. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 735-50	3.1	10
47	Field performance evaluation during fog-dominated wintertime of a newly developed denuder-equipped PM1 sampler. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 4551-64	5.1	17
46	A Comparative Morphological Study of Primary and Aged Particles Emitted from a Biodiesel (B20) vis-à-vis Diesel Fuelled CRDI Engine. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 934-942	4.6	15
45	Chemical Characterization of Summertime Dust Events at Kanpur: Insight into the Sources and Level of Mixing with Anthropogenic Emissions. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 879-891	4.6	38
44	Source Apportionment for Water Soluble Organic Matter of Submicron Aerosol: A Comparison between Foggy and Nonfoggy Episodes. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 1527-1533	4.6	8
43	Comparison of Primary and Secondary Emissions from an Internal Combustion Engine 2014 , 415-432		
42	Sources of submicron aerosol during fog-dominated wintertime at Kanpur. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5615-29	5.1	56
41	Measurement of personal and integrated exposure to particulate matter and co-pollutant gases: a panel study. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 1632-48	5.1	10
40	CCN closure results from Indian Continental Tropical Convergence Zone (CTCZ) aircraft experiment. <i>Atmospheric Research</i> , 2013 , 132-133, 322-331	5.4	17
39	Characterization of exhaust particulates from diesel fueled homogenous charge compression ignition combustion engine. <i>Journal of Aerosol Science</i> , 2013 , 58, 71-85	4.3	54

38	Assessment of toxic potential of primary and secondary particulates/aerosols from biodiesel vis-à-vis mineral diesel fuelled engine. <i>Inhalation Toxicology</i> , 2013 , 25, 325-32	2.7	21
37	Composition and comparative toxicity of particulate matter emitted from a diesel and biodiesel fuelled CRDI engine. <i>Atmospheric Environment</i> , 2012 , 46, 472-481	5.3	67
36	Harmonisation of nanoparticle concentration measurements using GRIMM and TSI scanning mobility particle sizers. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	25
35	Evaluation of a newly developed diffusion denuder for atmospheric aerosol separation from co-pollutant gases. <i>Science of the Total Environment</i> , 2012 , 439, 150-7	10.2	2
34	Variability of outdoor fine particulate (PM _{2.5}) concentration in the Indian Subcontinent: A remote sensing approach. <i>Remote Sensing of Environment</i> , 2012 , 127, 153-161	13.2	167
33	Comparative Study of PM Mass and Chemical Composition from Diesel and Biodiesel Fuelled CRDI SUV Engine 2012 ,		2
32	First Surface Measurement of Cloud Condensation Nuclei over Kanpur, IGP: Role of Long Range Transport. <i>Aerosol Science and Technology</i> , 2012 , 46, 973-982	3.4	22
31	The Secondary Organic Carbon (SOC) Formation from a CRDI Automotive Diesel Engine Exhaust 2011 ,		3
30	Oxidation Stability of Biodiesel Produced from Non-Edible Oils of African Origin 2011 ,		4
29	Observation-based 3-D view of aerosol radiative properties over Indian Continental Tropical Convergence Zone: implications to regional climate. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 971-989	3.3	34
28	Field performance evaluation of a newly developed PM ₁₀ sampler at IIT Kanpur. <i>Science of the Total Environment</i> , 2011 , 409, 3500-7	10.2	31
27	Aged particles derived from emissions of coal-fired power plants: the TERESA field results. <i>Inhalation Toxicology</i> , 2011 , 23 Suppl 2, 11-30	2.7	25
26	Secondary organic aerosol: a comparison between foggy and nonfoggy days. <i>Environmental Science & Technology</i> , 2011 , 45, 7307-13	10.3	125
25	Particulate emissions from biodiesel vs diesel fuelled compression ignition engine. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3278-3300	16.2	114
24	Toxicological evaluation of realistic emission source aerosols (TERESA)--power plant studies: assessment of breathing pattern. <i>Inhalation Toxicology</i> , 2011 , 23 Suppl 2, 42-59	2.7	26
23	Emissions from diesel versus biodiesel fuel used in a CRDI SUV engine: PM mass and chemical composition. <i>Inhalation Toxicology</i> , 2011 , 23, 449-58	2.7	19
22	Cardiac and pulmonary oxidative stress in rats exposed to realistic emissions of source aerosols. <i>Inhalation Toxicology</i> , 2011 , 23 Suppl 2, 75-83	2.7	26
21	Toxicological evaluation of realistic emission source aerosols (TERESA)-power plant studies: assessment of cellular responses. <i>Inhalation Toxicology</i> , 2011 , 23 Suppl 2, 60-74	2.7	25

20	Electrocardiographic and respiratory responses to coal-fired power plant emissions in a rat model of acute myocardial infarction: results from the Toxicological Evaluation of Realistic Emissions of Source Aerosols Study. <i>Inhalation Toxicology</i> , 2011 , 23 Suppl 2, 84-94	2.7	28
19	Experimental Study of the Effects of Environmental and Fog Condensation Nuclei Parameters on the Rate of Fog Formation and Dissipation Using a New Laboratory Scale Fog Generation Facility. <i>Aerosol and Air Quality Research</i> , 2011 , 11, 140-154	4.6	11
18	Effect of Engine Load on Size and Number Distribution of Particulate Matter Emitted from a Direct Injection Compression Ignition Engine. <i>Aerosol and Air Quality Research</i> , 2011 , 11, 915-920	4.6	33
17	Toxic Potential Evaluation of Particulate Matter Emitted from a Constant Speed Compression Ignition Engine: A Comparison between Straight Vegetable Oil and Mineral Diesel. <i>Aerosol Science and Technology</i> , 2010 , 44, 724-733	3.4	19
16	Toxicology of Combustion Products 2010 , 357		2
15	Measurement of number and size distribution of particles emitted from a mid-sized transportation multipoint port fuel injection gasoline engine. <i>Fuel</i> , 2010 , 89, 2230-2233	7.1	59
14	Chemical Characterization and Source Apportionment of Submicron (PM ₁) Aerosol in Kanpur Region, India. <i>Aerosol and Air Quality Research</i> , 2010 , 10, 433-445	4.6	140
13	Particulate Characterization of Biodiesel Fuelled Compression Ignition Engine 2009 ,		4
12	Assessment of personal exposure to inhalable indoor and outdoor particulate matter for student residents of an academic campus (IIT-Kanpur). <i>Inhalation Toxicology</i> , 2009 , 21, 1208-22	2.7	32
11	Particles emitted from indoor combustion sources: size distribution measurement and chemical analysis. <i>Inhalation Toxicology</i> , 2009 , 21, 837-48	2.7	27
10	Analysis of Diurnal and Seasonal Variation of Submicron Outdoor Aerosol Mass and Size Distribution in a Northern Indian City and Its Correlation to Black Carbon. <i>Aerosol and Air Quality Research</i> , 2009 , 9, 458-469	4.6	33
9	Development and evaluation of a photochemical chamber to examine the toxicity of coal-fired power plant emissions. <i>Inhalation Toxicology</i> , 2007 , 19, 597-606	2.7	18
8	Development of an exposure system for the toxicological evaluation of particles derived from coal-fired power plants. <i>Inhalation Toxicology</i> , 2007 , 19, 607-19	2.7	21
7	Effects of Physicochemical Properties of Ultrafine Particles on the Performance of an Ultrafine Particle Concentrator. <i>Aerosol Science and Technology</i> , 2004 , 38, 37-45	3.4	17
6	Development and performance evaluation of a high-volume ultrafine particle concentrator for inhalation toxicological studies. <i>Inhalation Toxicology</i> , 2004 , 16, 851-62	2.7	33
5	Development of a high-volume concentrated ambient particles system (CAPS) for human and animal inhalation toxicological studies. <i>Inhalation Toxicology</i> , 2003 , 15, 111-29	2.7	26
4	Development and laboratory performance evaluation of a personal cascade impactor. <i>Journal of the Air and Waste Management Association</i> , 2002 , 52, 1230-7	2.4	28
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