



Central Pollution Control Board

List of Papers Published by CPCB Officials during 2020 - 2024

S. No.	Year of publication	Title of the paper	Name of the Officials	Journal	Volume & Issue
2024-2023					
1.	2024	Size-resolved particulate matter filtration efficiency of macroporous asymmetric SiC ceramic filters	Murilo Daniel de Mello Innocentini , Nijhuma Kayal , Atanu Dey , Omprakash Chakrabarti , Paolo Tronville	Ceramics International	Volume 50, Issue 1
2.	2024	Radiation-assisted synthesis of water soluble starch encapsulated copper nanoparticles and its applicability toward photocatalytic reduction of p-nitrophenol	Chandra Nath Roy, Susmita Maiti, Tushar Kanti Das , Somashree Kundu, Sudip Karmakar, Aparna Datta & Abhijit Saha	Applied Nanoscience	Volume 14, pages 507–518, (2024)



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3.	2023	Pre-to-post Diwali air quality assessment and particulate matter characterization of a western coastal place in India	Amit Chanchpara, Monali Muduli, Vinay Prabhakar , Anil Kumar Madhava, Ravikumar Bhagwan Thorat, Soumya Haldar and Sanak Ray	Environmental Monitoring and Assessment	195
4.	2023	Potential of Biogas Production from Dung Generated at Dairy Farms and Gaushalas in India	Vinay Prabhakar, Gargi Biswas, Yogita Mishra, G. Rambabu, and S.K. Gupta	International Journal of Ecology and Environmental Sciences	49 & 7
5.	2023	Assessment of Impact on Water Quality of Aquatic Resources due to Idol Immersion	Suniti Parashar, Meetali Sharma, Deepty Goyal, Pradeep Kumar Mishra, Alpana Narula and Prashant Gargava	Indian Forester	149 No (4) A, April, 2023
6.	2023	Discharges from Gross Polluting Industries into Ganga River Basin:	Rupanjali Singh, Amit Arora, Ajit Vidyarthi, R. K. Singh and C.B.	Ecology, Environment & Conservation	29 (April Suppl. Issue)



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7.	2023	Assessing the impacts of industrial wastewater on the inland surface water quality: An application of analytic hierarchy process (AHP) model-based water quality index and GIS techniques	Singh, R., Majumder, C.B., Vidyarthi, A.K.	Physics and Chemistry of the Earth	Volume-129, 103314
8.	2023	Securing Zero Black Liquor Discharge in Pulp and Paper Industries of River Ganga Basin through Participatory Approach	R. K. Singh, A.K. Vidyarthi, A. Shukla, P. Ranjan, V. Kumar, R. Kumar	Indian forester	Volume 149, Issue 4
9.	2023	Policy Interventions towards Sewage Management and Improvement in Water Quality of River Ganga	S. Singh, F. Ahmad, D. Raghuvanshi, G. Dublish, R. Satavan, A.K. Vidyarthi	Indian forester	Volume 149, Issue 4



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10.	2023	Wastewater Reuse - A Prospective towards Efficient Reuse of Treated Wastewater from Sugar Industries of River Ganga Basin for Irrigation	P. Ranjan, A.K. Vidyarthi, R. Satavan, A. Singh, S. Lally, D.B. Sapkal	Indian forester	Volume 149, Issue 4
11.	2023	Securing Zero Liquid Discharge (ZLD) in Molasses-Based Distilleries Located in Ganga Basin by Charter Action Plan	R. Satavan, A.K. Vidyarthi, A. Kumari, S. Lonarkar, S. Goswami, M. Chaudhary, A. Deshmukh	Indian forester	Volume 149, Issue 4
12.	2023	Spatio-temporal variability in macroinvertebrate community structure and ecological health status of a tropical dynamic river-estuarine system, India: An integrated approach of multivariate analysis	Sudhanshu Charan Mohapatra, Vishnu Vardhan Kanuri, Kiran Kumar Vaddem, Sarmistha Saha, Syed Yakub Ali, Ajeet Verma, Mrinal Kanti Biswas, Ajit Kumar Vidyarthi	Environmental Research	238 (2023) 117236



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13.	2023	Assessment of Metal Pollution of Overburden in a Tropical Coalfield, Ib valley, India: A Case Study	Bishnu Prasad Sahoo, Himanshu Bhushan Sahu, Vishnu Vardhan Kanuri, Mrinal Kanti Biswas and Ajit Kumar Vidyarthi	Journal of the Geological Society of India	99: 37-46
14.	2023	Potential of Biogas production from Dung generated at Dairy Farms and Gaushalas in India	Vinay Prabhakar, Gargi Biswas, Yogita Mishra, G. Rambabu, and S. K. Gupta	International Journal of Ecology and Environmental Sciences	Volume 49
15.	2023	SWOT Analysis of Solid Waste Management Through Waste to Energy Conversion in India	Arvind K Jha, B.V. Kavitha, and Prasoon Gargava	International Journal of Ecology and Environmental Sciences	Volume 49
16.	2023	Circular Economy- a step towards resource efficiency	Deepti kapil, Shri B. Vinod Babu, Shri Sameer Arora, Shri Rishabh Bhatghare, Shri Prashant Gargava	International Journal of Ecology and Environmental Sciences	Volume 49



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17.	2023	Paddy straw management in North India: From waste to renewable energy	Deuvshree Sharma, Ankush Tewani, Gautam Kumar Sharma, PK Gupta, and Prashant Gargava	Indian Journal of Air Pollution Control	Volume XXII, No.1
18.	2023	Waste paper trade and recycling policy in India: A review	Kamlesh Singh, Sameer Arora, and Prashant Gargava	International Journal of Ecology and Environmental Sciences	Volume 49
19.	2023	Biomining of Legacy Waste Dump Sites in India- Overview	Amit R. Thakkar, Nirpendra Semwal, and Prasoon Gargava	International Journal of Ecology and Environmental Sciences	Volume 49
20.	2023	Integrated Solid Waste Management: Preparing to Face the Future	Mahima T, N S Anantha, J Chandra Babu, and Divya Sinha	International Journal of Ecology and Environmental Sciences	Volume 49
21.	2023	Composting: Challenges and Solutions	R Rajkumar, H D Varalaxmi, R Haritha, and Divya Sinha	International Journal of Ecology and Environmental Sciences	Volume 49



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22.	2023	Biomethanation – Advantages & Way Forward	B M Poornima, H D Varalaxmi and Divya Sinha	International Journal of Ecology and Environmental Sciences	Volume 49
23.	2023	Elimination of Single Use Plastic with Digital Interventions	Sameer Arora, and Divya Sinha	International Journal of Ecology and Environmental Sciences	Volume 49,
24.	2023	Securing Zero Liquid Discharge (ZLD) in molasses-based distilleries based in Ganga basin by implementing Charter Action Plans	R. Satavan, A.K. Vidyarthi, A. Kumari, S Lonarkar, and A. Deshmukh	Indian Forester	Volume 149, Issue 4(A)
25.	2023	Securing zero black liquor discharge in Pulp & Paper industries of river Ganga Basin Through Participatory Approach	R.K. Singh, A.K. Vidyarthi, A. Shukla, P. Ranjan, and V. Kumar	Indian Forester	Volume 149, Issue 4(A)



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26.	2023	Wastewater Reuse - A prospective towards efficient reuse of Treated Used Water (TUW) for irrigation from sugar industries of River Ganga Basin	P. Ranjan, A. K. Vidyarthi, R. Satavan, A. Singh, S. Lally, and, DB. Sapkal	Indian Forester	Volume 149, Issue 4(A)
27.	2023	Policy Interventions Towards Sewage Management and Improvement in Water Quality of River Ganga	S. Singh, F. Ahmad, D. Raghuvanshi, G. Dublish, R Satavan, and A.K. Vidyarthi	Indian Forester	Volume 149, Issue 4(A)
28.	2023	Assessment of impact on water quality of aquatic resources due to idol immersion	Suniti Parashar, Meetalı Sharma, Deepty Goyal, Pradeep Kumar Mishra, Alpana Narula, and Prashant Gargava	Indian Forester	Volume 149, Issue 4(A),
29.	2023	Overview of Emission Control Devices for Diesel Vehicles and Potential use in India	Gautam Kumar Sharma, Ankush Tewani, P K Gupta, and Prashant Gargava	Indian Journal of Air Pollution Control	Volume XXII, No.1



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30.	2023	Integrated Solid Waste Management: Preparing to Face the Future	Mahima, T, Dr. Anantha, J. Chandra Babu, Divya Sinha	International Journal of Ecology and Environmental Sciences	Volume-49 (7) of 2023
31.	2023	Fluorination of the tertiary carbon at the edge of graphene oxide	Tushar Kanti Das, Sudip Karmakar, Parveen Garg, Sakshi Bhagat, Uday Deshpande, Shamima Hussain, Samanwita Pal, Nandakumar Kalarikkal, Abhijit Saha & Goutam Pramanik	Journal of materials science,	Volume 58, pages 9409–9419, (2023)
34.	2023	Removal of Single Use Plastic (SUP) in Sanitary Napkin	Dr. Yogendra K. Saxena, Dr. Sonal Wankhede, Dr. Ranu Chouksey Verma, Shri P. Jagan,	Journal of Emerging Technologies and Innovative Research	Vol 10&Issue 3



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35.	2023	Go-Kashth: A Pioneering Approach for Alternate Fuel in Crematoriums	Dr. Yogendra K. Saxena, Dr. Ranu Chouksey Verma, Shri P. Jagan.	Journal of Scientific & Industrial Research	Vol. 82
36.	2023	Integrated Solid Waste Management: Preparing to Face the Future	T. Mahima, Dr. Anantha N.S, J. Chandra Babu, Divya Sinha.	International Journal of Ecology and Environmental Sciences, National Institute of Ecology	Volume-49 (7) of 2023
37.	2023	Luminescent transparent wood from a woody cellulosic template treated with an optical brightener	Anish M. Chathoth, Anantha N. Subba Rao , Sreeja Nair, Giridhar B. Nagarajappa, Krishna K. Pandey.	Journal of Applied Polymer Science	e54028 of 2023. Page 1-10.
38.	2023	E-Mobility: Hindrances and motivators for policies implementation in India	Sameer Arora and Prashant Gargava	Case Studies on Transport Policy	11, 10095 5 2



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2022-2021					
39.	2022	Permeation Behavior of Oxide Bonded SiC Ceramics at High Temperature and Prediction of Pressure Drop in Candle Filters	Dr. Atanu Dey , Nijhuma Kayal, Omprakash Chakrabarti & Murilo D. M. Innocentini	Transactions of the Indian Ceramic Society	Volume 81, Issue 2
40.	2022	Selection of Suitable Water Treatment Technologies for Natural Disaster and Emergency Situation	Sunil Kumar Meena , Urmila Brighu, P Jagan	Disaster & Development	Vol 11 & Issue 1
41.	2022	High-Resolution Mapping of Air Pollution in Delhi Using Detrended Kriging Model	Md H. Rahman, Shivang Agarwal, Sumit Sharma, R. Suresh, Seema Kundu, Stijn Vranckx, Bino Maiheu, Lisa Blyth, Stijn Janssen, Sousa Jorge, Prashant Gargava, V. K. Shukla & Sakshi Batra	Environmental Modeling & Assessment	Volume 28, pages 39-54



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42.	2022	Comprehensive analysis of ambient air quality during second lockdown in national capital territory of Delhi	Gautam Kumar Sharma, Ankush Tewani, Prashant Gargava	Journal of Hazardous Materials Advances	6, 100078
43.	2022	Performance evaluation of air pollution control device at traffic intersections in Delhi	S. Gulia, S. Kaur, S. Mendiratta, R. Tiwari, S. K. Goyal, P. Gargava & R. Kumar	International Journal of Environmental Science and Technology	19 (2), 78 5-796
44.	2022	Effect of Biomass Burning on PM _{2.5} Composition and Secondary Aerosol Formation During Post-Monsoon and Winter Haze Episodes in Delhi	V. Lalchandani, D. Srivastava, J. Dave, S. Mishra, N. Tripathi, A. K. Shukla, R. Sahu, N. M. Thamban, S. Gaddamidi, K. Dixit, D. Ganguly, S. Tiwari, A. K. Srivastava, L. Sahu, N. Rastogi, P. Gargava , S. N. Tripathi	Journal of Geophysical Research: Atmospheres	127 (1), e 2021JD03 5232



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45.	2022	SmartAirQ: A Big Data Governance Framework for Urban Air Quality Management in Smart Cities	Akshara Kaginalkar, Shamita Kumar, Prashant Gargava , Neelesh Kharkar and Dev Niyogi	Frontiers in Environmental Science	228
46.	2022	Integrated Urban Environmental System of Systems for Weather Ready Cities in India	Akshara Kaginalkar, Sachin D. Ghude, U. C. Mohanty, Pradeep Mujumdar, Sudheer Bhakare, Hemant Darbari, Arun K. Dwivedi, Pallavi Gavali, Srujan Gavhale, Sahidul Islam, Gouri Kadam, Sumita Kedia, Manoj Khare, Neelesh Kharkar, Santosh H. Kulkarni, Sri Sai Meher, A. K. Nath Prashant Gargava , S. D. Attri, and Dev Niyogi	Bulletin of the American Meteorological Society	103 (1), E 54-E76



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47.	2022	Carbon Disulphide and hydrogen sulphide emissions from Viscose fiber manufacturing Industry-A case study in India	Deepanjan Majumdar, Anil Bhanarkar, Chalapati Rao, Dinabandhu Gouda	Atmospheric Environment X (ELSEVIER)	13(100157)
48.	2022	Abundance & distribution of aquatic benthic macro-invertebrate families of river Ganga and correlation with environmental parameters	Jaya Sharma and Pradyumn K. Behera	Environment Monitoring and Assessment	194(8):546
49.	2022	Biological Health Assessment of river Ganga in Uttar Pradesh stretch (Bijnore to Badaun): A comparative perspective	Sanjeev Agrawal , Jaya Sharma , Annu Goel	International Journal of Research and Analytical Reviews	9(2)



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50.	2022	Influences of extractives and thermal modification on the UV resistance of Albizia lebbeck wood	M. C. Anish, B. N. Giridhar, Sreeja Nair, N. S. Anantha & Krishna K. Pandey	Material Science and Engineering	4
51.	2022	Modelling re-aeration of rivers using predictive models and developed	Sameer Arora and A. K. Keshari	Hydrological Sciences Journal	67(15), 2 294
52.	2022	Nitrate Contamination in Gurugram District, Haryana	Vijay Laxmi , Jakir Hussain, Supriya Singh, Iqbal Husain, Sudesh Kumar and V.K. Vadiya	Ecology, Environment and Conservation	28, S226-S232
53.	2021	Studies on processing of layered oxide-bonded porous sic ceramic filter materials	Atanu Dey , Nijhuma Kayal, Omprakash Chakrabarti, Nilo M. Fortes, Murilo D. M. Innocentini, Atiar R. Molla, Prasanta Sinha, Srikanta Dalui	Applied Ceramic Technology	Volume18, Issue3



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54.	2021	Review of urban computing in air quality management as smart city service: An integrated IoT, AI, and cloud technology perspective	Akshara Kaginalkar, Shamita Kumar, Prashant Gargava , Neelesh Kharkar and Dev Niyogi	Urban Climate	39, 10097 2
55.	2021	Assessment of persistent organic pollutants in soil and sediments from an urbanized flood plain area	Bhupander Kumar, Virendra Kumar Verma, Meenu Mishra, Piyush, Vatsala Kakkar, Amrapali Tiwari, Sanjay Kumar, Vijay Prakash Yadav & Prashant Gargava	Environmental Geochemistry and Health	43 (9), 33 75-3392 16 2021
56.	2021	Multi-pollutant air quality analyses and apportionment of sources in three particle size categories at Taj Mahal, Agra	Pavan K. Nagar, Prashant Gargava, Vijay K. Shukla , Mukesh Sharma, Ashutosh K. Pathak, Dharendra Singh	Atmospheric Pollution Research	12 (1), 21 0-218



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57.	2021	Microstructure observations of Lemna aequinoctialis ecotype	Sunita Gupta, Parul Kulshreshtha, Deuvshree Sharma , Divya Aggarwal, Gitanjali Jiwani and Gaurav Sharma	Journal of Scientific Research	65(5)
58.	2021	Potential of macroinvertebrates in Bioaccumulation of Heavy metals – A Review.	Jaya Sharma & Pradyumn K. Behera	Asian Jr. of Microbial.Biotech.Env.Sc.	23(3)
59.	2021	Assessment of biological water quality of River Ganga in Patna (India) using Benthic Macro-Invertebrates	Annu Goel, Jaya Sharma and N. C. Durgapal	Applied Biological Research	23(2)
60.	2021	A Study on Polythiophene Modified Carbon Cloth as Anode in Microbial Fuel Cell for Lead Removal	Rajkumar Rajendran , Gnana Prakash Dhakshina Moorthy, Haribabu Krishnan & Sumisha Anappara	Arabian Journal for Science and Engineering	46



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61.	2021	Validation of a Modified Procedure for the determination of Chemical Oxygen Demand using standard dichromate method in industrial wastewater samples with high calcium chloride content.	A Gnanavelu, T S Shanmuganathan, V Deepesh , S Suresh	Indian Journal of Science and Technology (IJST)	14 (29)
62.	2021	A Study on Pollution Level in Yamuna River Across the Delhi Stretch	B. Sasi Devi , AVVS. Swamy, V. Subhashini, Anoop Chaturvedi and P.K. Behera	International Journal of Research and Analytical Reviews (IJRAR)	
63.	2021	ANFIS-ARIMA modelling for scheming re-aeration of hydrologically altered rivers	Sameer Arora and A. K. Keshari	Journal of Hydrology	601, 1266 35



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64.	2021	Pattern recognition of water quality variance in Yamuna River (India) using hierarchical agglomerative cluster and principal component analyses	Sameer Arora and A. K. Keshari	Environmental Monitoring and Assessment	193 (8), 4 94
65.	2021	Dissolved oxygen modelling of Yamuna River using different ANFIS models	Sameer Arora and A. K. Keshari	Water Science and Technology	84(10-11) , 3359-33 71
2020					
66.	2020	Photostability of acetylated wood coated with nano zinc oxide	Giridhar B. Nagarajappa , Sreeja Nair, Kavyashree Srinivas, Anantha N Subba Rao , Krishna K Pandey.	Maderas. Ciencia y tecnología	22 (3)



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67.	2020	Polycyclic aromatic hydrocarbons in urban and rural residential soils, levels, composition profiles, source identification and health risk & hazard	Bhupander Kumar, Virendra Kumar Verma, Disha Joshi, Sanjay Kumar & Prashant Gargava	SN Applied Sciences	26 2 (12), 1-12
68.	2020	Impact of shutdown due to COVID-19 pandemic on aerosol characteristics in Kanpur, India	Nidhi Shukla, Gautam Kumar Sharma, Parinita Baruah, V. K. Shukla, Prashant Gargava	Journal of Health and Pollution	10 (28)



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69.	2020	Air quality forecasting using artificial neural networks with real time dynamic error correction in highly polluted regions	Shivang Agarwal, Sumit Sharma, Suresh R., Md H. Rahman, Stijn Vranckx, Bino Maiheu, Lisa Blyth, Stijn Janssen, Prashant Gargava, V.K. Shukla, Sakshi Batra	Science of The Total Environment	735, 1394 54
70.	2020	Objective evaluation of stubble emission of North India and quantifying its impact on air quality of Delhi	Gufran Beig, Saroj K. Sahu, Vikas Singh, Suvarna Tikle, Sandeepan B. Sobhana, Prashant Gargeva, K. Ramakrishna, Aditi Rathod, B.S. Murthy	Science of The Total Environment	709



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71.	2020	A satellite-based high-resolution (1-km) ambient PM 2.5 database for India over two decades (2000-2019): Applications for air quality management	Sagnik Dey, Bhavesh Purohit, Palak Balyan, Kuldeep Dixit, Kunal Bali, Alok Kumar, Fahad Imam, Sourangsu Chowdhury, Dilip Ganguly, Prashant Gargava and V. K. Shukla	Remote Sensing	12 (23)
72.	2020	Use of Natural coagulants for industrial wastewater treatment	Swati Gautam and Gaurav Saini	Global Journal of Environment Science and Management	6(4)
73.	2020	A Study on Chemical Disintegration of POP Ganesh Idols in Bhopal, Madhya Pradesh, India	Y. K. Saxen, R.C. Verma and P. Jagan	Nature Environment and Pollution Technology An International Quarterly Scientific Journal	19(5)



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74.	2020	Performance Evaluation Study of Liquid Waste Treatment Plant, Hamidia Hospital, Bhopal, Madhya Pradesh, India	Yogendra Kumar Saxena, Ranu C. Verma, P. Jagan, N. Verma and T. Aslam	International Journal of Advanced Biotechnology and Research (IJABR)	11(2)
75.	2020	Development of a reaeration equation for the simulation of dissolved oxygen in degraded streams	Sameer Arora and A. K. Keshari	Water and Environment Journal	35(1), 97-106