

This file has been cleaned of potential threats.

If you confirm that the file is coming from a trusted source, you can send the following SHA-256 hash value to your admin for the original file.

b9d4f5aacf83cd98080fedbbb379cab36759865e636bfa33a47c85a788b5f693

To view the reconstructed contents, please SCROLL DOWN to next page.

Name : **Dr. A. K. PRIYA**
Designation : **Professor (Research)**
Department : Biotechnology
Campus : Karunya Institute of Technology and Sciences
Email : akpriy@gmail.com, akpriya@karunya.edu
Phone : +91-8870802844 (India)
Scopus id : 57226315795
Wos id : AAF-1084-2020

Research Interest: Bioremediation, Design of Water and Wastewater treatment plant, Environmental Biotechnology, Solid waste Management, Air pollution and control

Educational Qualification:

- Ph.D. (2012-2016), Environmental Engineering, Anna University, Chennai
Thesis: Assessment of bioremediation potential in the removal of heavymetals using immobilization and adsorption techniques.
- M.E (2007-2009), Environmental Engineering and Management, Coimbatore Institute of Technology, Coimbatore (**Gold Medal**)
- B.Tech (2003-2007), Industrial Biotechnology, Shri Andal Alagar College of Engineering, Chengalpet
- B.E, (2019) Civil Engineering, Institution of Engineers

Experience:

- Professor (Research), Karunya Institute of Technology Sciences, Coimbatore (Present)
- Professor, KPR Institute of Engineering and Technology, Coimbatore (January 2022 - December 2025)
- Associate NCC officer 5TN Girls BN (October 2018-December 2025)
- Visiting Professor, ICAR IISWC, Dehradun (March 2023 – June 2023)
- Associate Professor, KPR Institute of Engineering and Technology, Coimbatore (February 2016 – December 2021)
- Assistant Professor (SL.Gr), KPR Institute of Engineering and Technology, Coimbatore (November 2014 - January 2016)
- Assistant Professor, Kathir College of Engineering, Coimbatore (June 2012 - October 2014)
- Assistant Professor, Thiagarajar College of Engineering, Madurai (January 2010 - May 2012)
- Environmental Engineer, Sterlite Industries India Ltd, Tuticorin

(August 2009 – December 2009)

Honors / Awards Received:

- ✓ **Top 2% scientists in the World 2023, 2024 & 2025** by Stanford University, USA
- ✓ **Indias Business Iconic Award 2025** by **Youngsters Time**
- ✓ **Best project & best stall award 2025** by **Saintgits College**
- ✓ **Women Technologist of the year 2024** by IEEE India Council Award at IIT Kharagpur
- ✓ **Best researcher award and Best Faculty award 2023** by KPRIET
- ✓ **Young Scientist Fellowship 2023** by TNSCST (4 months at ICAR IISWC, Dehradun)
- ✓ **Best Innovation Award and Best Mentor Award 2022** by **Saintgits College**
- ✓ **Best Researcher Award 2022** by KPRIET
- ✓ **MILCA AWARD 2022-** Researcher category Gold by CII
- ✓ **Best Faculty Award – 2021** by KPRIET
- ✓ **Best Faculty Advisor Award – 2021** by IEI Hosur Chapter
- ✓ **Young Achiever Award – 2020** by IEI Coimbatore Chapter.
- ✓ **Best ANO award – 2020** by NCC GP Coimbatore.
- ✓ Selected and Participated in **Regional Convention of AICTE-Chhatra Vishwakarma Awards 2019** for the project Waste Water Treatment
- ✓ **Young Scientist award – 2018** by Research wing for Excellence in Professional Education & Industry.
- ✓ **Young Women Educator and Scholar Award – 2017** on Women's Day by National Foundation of Entrepreneur Development.
- ✓ **Young Engineer Award – 2017** by Institution of Engineers (India).
- ✓ **Innovative Technological Research & Dedicated Teaching Professional Award – 2017** by Innovative Scientific Research Professional Malaysia.
- ✓ **Gold Medal** in PG programme (Environmental Engineering and Management)
- ✓ Got **Best Presentation Award** in International Conference
- ✓ Honored as **Project Evaluator** for national children's science congress – 2016.

Technology Transfer:

- ✓ Medicine vending machine to Ms Mahalakshmi agencies, Coimbatore. (2022)

Resource Person:

- ✓ Handled a session in International Conference at Sri Venkateswara Institute on 07.02.2025.
- ✓ Handled a session in World habitat day, IEI Salem on 25.10.2023.
- ✓ Handled a session in Preparation of competitive exam in Nirmala College, Coimbatore on 02.08.2023.
- ✓ Handled a session in World water day, Dolphin Institute, Dehradun on 23.03.2023.
- ✓ Handled a session in All india seminar on Wastewater Treatment Systems: Water Efficient Technologies and Opportunities in KPRIET on 28.12.2022.
- ✓ Handled a session in Webinar series on Newness in Environmental Engineering titled Environmental Phytoremediation an approach for revegetation, Kumaraguru College of Technology, Coimbatore on 27.07.2020.
- ✓ Handled a session in FDP on Recent Trends in Environmental Engineering and gave insight on Environmental Clean Up Process (Bioremediation), Mohamed Sathak AJ College of Engineering, Chennai on 05.06.2020.
- ✓ Acted as Resource person for webinar on Microbes in Air: Impacts on Environment, KLN College of Information Technology on 12.06.2020.
- ✓ Handled a session on Webinar on Cleaner Production as a sustainable tool for sustainable development, Sethu Institute of Technology on 06.06.2020.
- ✓ Chief Guest and keynote lecture on Environment Day, ICT Coimbatore on 05th June 2019.
- ✓ Keynote lecture on Cleaner Production as a tool for sustainable development, Industrial Waste Management Association & PSG STEP on 18th May 2019.
- ✓ Keynote lecture on Intellectual Property Rights, KPRIET on 17th March 2018.
- ✓ Keynote lecture on Environmental Issues – IAMWARM Project in Thiagarajar College of Engineering on 19th Mar 2012.
- ✓ Special lecture on Sludge Treatment and Disposal - TWAD Board Sub training Centre, Madurai on 23rd Feb 2012.
- ✓ Special lecture on Disinfection of Sewage - TWAD Board Sub training Centre, Madurai on 23rd Feb 2012.

- ✓ Guest speech in Environmental Awareness programme - IAMWARM Project - Govt. Women Hr.Sec.School, Paramakudi on 23rd Nov 2011.
- ✓ Guest speech in Environmental Awareness programme - IAMWARM Project - St. Annee's Girls Hr.Sec.School, Parunkudi on 14th Oct 2011.
- ✓ Special lecture on Environmental Issues - Thiagarajar College of Engineering on 14th Sep 2011.

Sponsored Projects:

S. No	Title	Agencies	Amount	Status
1	To design and develop Eco friendly Cordybloomer readymade kit for the efficient growth of cordyceps mushrooms using smart technology	BIG BIRAC	Rs 50 lakhs	Completed
2	National Seminar on "Disaster Mitigation and Management"	DST- SERB	Rs 50,000/-	Completed
3	National Workshop on "Women Entrepreneurship and Skill Development"	DST- SERB	Rs 75,000/-	Completed
4	STTP on Disaster Mitigation and Management	AICTE	Rs 3.36 lakhs	Completed
5	R & D Grant for Micro Filtration through Polysulfone Based Water Minimizer	IEI	Rs 30,000/-	Completed
6	Young Scientist fellowship	TNSCST	Rs 46,800/-	Completed
7	All India Seminar on Wastewater Treatment Systems: Water Efficient Technologies and Opportunities	IEI	Rs 30,000/-	Completed
8	All India Seminar on Advances in Hazardous Waste Management Technology	IEI	Rs 30,000/-	Completed
9	IEI Lecture meetings	IEI	Rs 30,000/-	Completed
10	All India Seminar on "Innovative Trends and Aspects of Nanotechnology: Fueling the Chemical Industry's Future"	IEI	Rs 50,000/-	Completed
11	One Day Seminar on "Microplastics Accumulation Prediction using ML: Environmental and Public Health Impacts"	IEI	Rs 30,000/-	Completed
12	Mycobloom Mushroomery	TANSEED	Rs 15 lakhs	Ongoing
13	New and Innovative reactor for conversion of domestic waste into fuel and value-added organic manure	EDII	Rs 2 lakhs	Ongoing
14	Smart automated IoT based portable water purifier for safe drinking water	UBA	Rs 1 lakh	Ongoing

Professional Activities:

Technical Editor/ Reviewer for the International Journals

- Technical reviewer in Fuel, International Journal of Environmental Engineering, Environmental Research, Journal of Environmental Management, BioNanoScience, Metals, Materials, Material today proceedings, International Journal of Environment and Climate Change, Asian Journal of Research in Botany, Asian Journal of Geological Research, International Journal of Environmental Analytical Chemistry, Iranian Journal of Chemistry and Chemical Engineering.
- Editor in the Materials today proceedings
- Editor in the International Journal of Recent Development in Civil & Environmental Engineering (IJRDCEE)

Membership of Scientific and Professional Societies:

- Senior Member of IEEE (Institute of Electrical and Electronics Engineers)
[Membership Number: 100082798]
- Member of IWWA (Indian Water Works Association)
[Membership number: LM6876]
- Member of MISTE (Member of Indian Society for Technical Education)
[Membership number: LM106637]
- International Association of Engineers
[Membership number: 170499]
- Member of Institute of Engineers
[Membership number: M-1670403]
- Fellow of Indian Society of Civil Engineers
- Member Innovative Scientific Research Professional Malaysia.
- Life Member of International Society for Research and Development
[Membership number: SR4150900485]

Patent:

- 202341055085, Smart Automated IoT-Based Dry Plant Content Analyser, 2023
- 202241025871, Smart Medicine Vending Machine, 2022
- 202141038238, Conducive Compartment for Cordyceps Production, 2021
- 2020102051, Computer with hybrid phase change material, **Granted Sep 2020**
- Low cost metal 3D printer manufacturing device thereof ,2020
- Eco friendly 3D printing filament manufacturing technique,2020
- UV system to purify the atmospheric air for entire room, 2020
- 202041026204, Healing Aided Biomask, filed 2020
- 202041032035, Phase change material embedded constructional material with AI assistance device for maintaining temperature, filed 2020.
- 202041020818, Fan Blades with holes for better cooling, filed 2020.

- 202041020819, Computers with hybrid Phase change material, filed 2020.
- 202041021998, Method of preparing brick from tendu leaves, filed 2020.
- 201941038834, E-Waste Synthetization and Additive for versatile product development, filed 2019.
- 201741047179, Life Sustenance Management through adoption of Elziner. Indian Patent, filed December 29, 2017.
- 201741047168, Nobon for Prevention of Toxins. Indian Patent, filed December 29, 2018.
- 201741047169, Resource Reduction and effective utilization for future using Mator. Indian Patent, filed December 29, 2018.
- 201741047170, 3D Printer for the mould making using foundry sand. Indian Patent, filed December 29, 2018.
- 201741043727, Trendy Vircine Waste Treatment and Recovery. Indian Patent, filed December 06, 2017 and published December 15, 2017.
- 201741043729, Versatile Imprint Head For High Temperature Applications. Indian Patent, filed December 06, 2017 and published December 15, 2017.

Journal publications:

1. ShravanKumar, S. M., Alagar Karthick, **A. K. Priya**, Vinayagam Mohanavel, and Suresh Muthusamy. "Remote Sensing and Artificial Intelligence in Flood Prediction: Progress, Challenges, and Prospects." *Archives of Computational Methods in Engineering* (2026): 1-32.
2. Saha, Guria, **A. K. Priya**, and Natarajan Chandrasekaran. "Airborne Microplastics and its Impact to Environmental Health." *Water, Air, & Soil Pollution* 237, no. 4 (2026): 215.
3. Jayadurgalakshmi, M., A. J. Jeya Arthi, M. Goutham Priya, T. Udhaya Kumar, Alagar Karthick, and **A. K. Priya**. "Mechanical and durability assessment of paver blocks incorporating electronic plastic waste and polyethylene fiber." *Journal of Building Pathology and Rehabilitation* 11, no. 1 (2026): 18.
4. El-Khair, Muhammad A. Abo, Ahmed O. Abo El Naga, Khalid Z. Elwakeel, Ahmed M. Elgarahy, **A. K. Priya**, Krishna Kumar Yadav, and Asmaa S. Morshedy. "The promise of graphene-based photocatalytic materials for wastewater remediation: A scoping review." *Coordination Chemistry Reviews* 544 (2025): 216961.
5. **Priya, A. K.**, V. Yogeshwaran, J. S. Sudarsan, and S. Nithiyantham. "Removal and inactivation of coronavirus in water and wastewater treatments plants: a critical

- review—global perspective." *Journal of Umm Al-Qura University for Engineering and Architecture* (2025): 1-10. **IF: 2.37**
6. Karthick, Alagar, and **Arunkumar Priya**. "Review on utilization of electronic waste in construction industry as binder, mortar and concrete." *Asian Journal of Civil Engineering* (2025): 1-14. **IF: 2.3**
 7. RAVINDIRAN, GOKULAN, **A. K. Priya**, S. Elavarasan, G. Shyamala, and H. K. Ramaraju. "Recent Advances in Integrated Carbon Dioxide Capture: Exploring Carbon Capture Methods and AI Integration." (2025).
 8. Ramalingam, Gomathi, **Priya Arunkumar**, Mashaël Daghsh Alqahtani, and Ahmed M. Elgarahy. "Microwave-assisted in-Situ Synthesis of ZnS/g-C₃N₄ Heterojunction Composite for Efficient Photocatalytic Degradation of Malachite Green Dye." *Water, Air, & Soil Pollution* 236, no. 8 (2025): 481. **IF:3.0**
 9. Mandal, Subhrajit, Anamika Yadav, Rishab Panwar, S. M. Kumar, Alagar Karthick, **Arunkumar Priya**, R. Vijayakumar, and Sundaram Sankar Ganesh. "Smart Water Management For SDG 6: A Review Of AI And Iot-Enabled Solutions." *Water Conservation Science And Engineering* 10, no. 2 (2025): 1-15. **IF: 2.5**
 10. Munusamy, Manoj Kolandayal, and **Priya Arunkumar**. "Evaluation on adsorption characterization of Cr³⁺, Ni²⁺, Pb²⁺, Cd²⁺, Fe³⁺, and Zn²⁺ materials using delonix regia impacted by tannery effluents." *Matéria (Rio de Janeiro)* 30 (2025): e20240936. **IF: 1.0**
 11. Ramalingam, Gomathi, **Priya Arunkumar**, Mashaël Daghsh Alqahtani, and Ahmed M. Elgarahy. "Photocatalytic activity of microwave-assisted synthesized MoS₂/g-C₃N₄ composite for efficient decomposition of aniline green dye." *Journal of Cluster Science* 36, no. 5 (2025): 1-33. **IF: 3.6**
 12. Manoj, K. M., **A. K. Priya**, and M. Senthil Rajan. "Machine learning-assisted prediction of heavy metal adsorption from tannery effluent wastewater using Delonix-regia with random forest, isotherms, and kinetics modelling." *Desalination and Water Treatment* (2025): 101417. **IF: 1.0**
 13. Ramalingam, Gomathi, and **Priya Arunkumar**. "Construction of CuS/g-C₃N₄ heterojunction composite by in-situ synthesis for enhanced photocatalytic degradation of malachite green." *Matéria (Rio de Janeiro)* 30 (2025): e20250154. **IF: 1.0**
 14. Ramalingam, Gomathi, **Priya Arunkumar**, Mashaël Daghsh Alqahtani, and Ahmed M. Elgarahy. "Photocatalytic activity of microwave-assisted synthesized MoS₂/g-C₃N₄ composite for efficient decomposition of aniline green dye." *Journal of Cluster Science* 36, no. 5 (2025): 1-33. **IF:3.6**

15. Elgarahy, Ahmed M., Manal G. Eloffy, **Priya Arunkumar**, Malak Zirari, Mahmoud M. Ali, Laila A. Al-Khatib, Masha'el Daghash Alqahtani, and Khalid Z. Elwakeel. "Sustainable biopolymer-based materials for oil spill remediation: artificial intelligence integration and technoeconomic insights-A review." *International Journal of Biological Macromolecules* (2025): 148310. **IF:8.5**
16. El-Khair, Muhammad A. Abo, Ahmed O. Abo El Naga, Khalid Z. Elwakeel, Ahmed M. Elgarahy, **A. K. Priya**, Krishna Kumar Yadav, and Asmaa S. Morshedy. "The promise of graphene-based photocatalytic materials for wastewater remediation: A scoping review." *Coordination Chemistry Reviews* 544 (2025): 216961. **IF: 23.5**
17. Jayadurgalakshmi, M., A. J. Jeya Arthi, M. Goutham Priya, T. Udhaya Kumar, Alagar Karthick, and **A. K. Priya**. "Mechanical and durability assessment of paver blocks incorporating electronic plastic waste and polyethylene fiber." *Journal of Building Pathology and Rehabilitation* 11, no. 1 (2026): 1-14. **IF: 1.4**
18. Yogeshwaran, Venkatraman, and **Arunkumar Priya**. "Assessment of surface water quality parameters using multivariate analysis—A case study of Kurichi and big lakes in Coimbatore." *Water Environment Research* 97, no. 3 (2025): e70055. **IF: 2.0**
19. Sarangi, Naduvil Veetil, Renganathan Rajkumar, Nadavala Siva Kumar, **Priya Arunkumar**, Abdulaziz I. Alromaeh, Salwa B. AlReshaidan, and Ahmed S. Al-Fatesh. "Seaweed Biosorption: A green solution for heavy metal remediation in aquatic and soil environments." *Desalination and Water Treatment* (2025): 101036. **IF: 1.0**
20. **Priya, A. K.**, Huda M. Alghamdi, V. Kavinkumar, Khalid Z. Elwakeel, and Ahmed M. Elgarahy. "From biomass waste to bioaerogels-An alternative sustainable approach for wastewater remediation." *International Journal of Biological Macromolecules* (2024): 136994. **IF: 7.7**
21. **Priya, A. K.**, M. Muruganandam, Yogeshwaran Venkatraman, and Suresh Sagadevan. "Recent advances and synergistic interactions in graphene-based polymer nanocomposites for enhanced gas sensing applications." *Journal of Alloys and Compounds* (2024): 176599. **IF: 5.8**
22. **Priya, A. K.**, M. Muruganandam, and Sagadevan Suresh. "Bio-derived carbon-based materials for sustainable environmental remediation and wastewater treatment." *Chemosphere* (2024): 142731.
23. Elgarahy, Ahmed M., M. G. Eloffy, **A. K. Priya**, Ahmed Hammad, Moustafa Zahran, Ali Maged, and Khalid Z. Elwakeel. "Revitalizing the Circular Economy: An Exploration of E-Waste Recycling Approaches in a Technological Epoch." *Sustainable Chemistry for the Environment* (2024): 100124.

24. Elgarahy, Ahmed M., M. G. Eloffy, **A. K. Priya**, V. Yogeshwaran, Khalid Z. Elwakeel, Zhen Yang, and Eduardo Alberto Lopez-Maldonado. "A review on the synergistic efficacy of sonication-assisted water treatment process with special attention given to microplastics." *Chemical Engineering Research and Design* (2024). **IF: 3.7**
25. Osman, Ahmed I., Zhonghao Chen, Ahmed M. Elgarahy, Mohamed Farghali, Israa MA Mohamed, **A. K. Priya**, Hamada B. Hawash, and Pow-Seng Yap. "Membrane technology for energy saving: principles, techniques, applications, challenges, and prospects." *Advanced Energy and Sustainability Research* 5, no. 5 (2024): 2400011. **IF: 7.1**
26. **Priya, A. K.**, M. Muruganandam, Anuj Kumar, N. Senthilkumar, Mohd Shkir, Bidhan Pandit, Muhammad Imran, Chander Prakash, and Mohd Ubaidullah. "Recent advances in microbial-assisted degradation and remediation of xenobiotic contaminants; challenges and future prospects." *Journal of Water Process Engineering* 60 (2024): 105106. **IF: 6.3**
27. Elgarahy, Ahmed M., M. G. Eloffy, **A. K. Priya**, V. Yogeshwaran, Zhen Yang, Khalid Z. Elwakeel, and Eduardo Alberto Lopez-Maldonado. "Biosolids management and utilizations: A review." *Journal of Cleaner Production* (2024): 141974. **IF: 9.8**
28. **Priya, A. K.**, M. Muruganandam, and M. Nithya. "Microplastic and Nanoplastic: A Threat to the Environment." In *Management of Micro and Nano-plastics in Soil and Biosolids: Fate, Occurrence, Monitoring, and Remedies*, pp. 3-24. Cham: Springer Nature Switzerland, 2024.
29. Rajput, Priyadarshani, Pradeep Kumar, **A. K. Priya**, Smita Kumari, Seyede Roghie Ghadirnezhad Shiade, Vishnu D. Rajput, Amin Fathi et al. "Nanomaterials and biochar mediated remediation of emerging contaminants." *Science of The Total Environment* (2024): 170064. **IF: 8.2**
30. Ravindiran, Gokulan, Sivarethinamohan Rajamanickam, Muralikrishnan Ramalingam, Gasim Hayder, Balamurugan Karupaiya Sathaiah, Madhava Krishna Reddy Gaddam, Senthil Kumar Muniasamy, and **Priya Arunkumar**. "Conversion of seaweed waste to biochar for the removal of heavy metal ions from aqueous solution: A sustainable method to address eutrophication problem in water bodies." *Environmental Research* 241 (2024): 117551. **IF: 7.7**
31. Subha, C., and **A. K. Priya**. "Mustard (*Brassica Nigra*) Cake Powder Biochar/Nafion Composite as ORR Catalyst in Single Chambered Air Cathode MFC." *Iranian Journal of Chemistry and Chemical Engineering* 43, no. 2 (2024): 714-725. **IF: 3.5**

32. Ramalingam, Gomathi, **A. K. Priya**, Lalitha Gnanasekaran, Saravanan Rajendran, and Tuan KA Hoang. "Biomass and waste derived silica, activated carbon and ammonia-based materials for energy-related applications—A review." *Fuel* 355 (2024): 129490. **IF: 6.7**
33. **A. K. Priya**, Muruganandam, M., Sivarethinamohan Rajamanickam, Sujatha Sivarethinamohan, Madhava Krishna Reddy, Priya Velusamy, R. Gomathi, Gokulan Ravindiran, Thirumala Rao Gurugubelli, and Senthil Kumar Munisamy. "Impact of climate change and anthropogenic activities on aquatic ecosystem—A review." *Environmental Research* (2023): 117233. **IF: 8.431 (Q1)**
34. Venkatraman, Yogeshwaran, and **Priya AK**. "Biosorption of heavy metal ions using Green Algae (*Sargassum Wightii*)—Equilibrium, Kinetics and Thermodynamic Studies." *Iranian Journal of Chemistry and Chemical Engineering* (2023). **IF: 1.9.3 (Q1)**
35. Elgarahy, Ahmed M., **A. K. Priya**, Hamida Y. Mostafa, E. G. Zaki, S. M. Elsaeed, M. Muruganandam, and Khalid Z. Elwakeel. "Toward a Circular Economy: Investigating the Effectiveness of Different Plastic Waste Management Strategies: A Comprehensive Review." *Journal of Environmental Chemical Engineering* (2023): 110993. **IF: 7.7 (Q1)**
36. Venkatraman, Yogeshwaran, **Priya Arunkumar**, Nadavala Siva Kumar, Ahmed I. Osman, Muruganandam Muthiah, Ahmed S. Al-Fatesh, and Janardhan Reddy Koduru. "Exploring Modified Rice Straw Biochar as a Sustainable Solution for Simultaneous Cr (VI) and Pb (II) Removal from Wastewater: Characterization, Mechanism Insights, and Application Feasibility." *ACS omega* (2023). **IF: 4.13**
37. **Priya, A. K.**, Maheswari Muruganandam, Muhammad Imran, Rana Gill, Minnam Reddy Vasudeva Reddy, Mohd Shkir, M. A. Sayed et al. "A study on managing plastic waste to tackle the worldwide plastic contamination and environmental remediation." *Chemosphere* 341 (2023): 139979. **IF: 7.086 (Q1)**
38. Ravindiran, Gokulan, Sivarethinamohan Rajamanickam, Karthick Kanagarathinam, Gasim Hayder, Gorti Janardhan, **Priya Arunkumar**, Sivakumar Arunachalam, Abeer A. AlObaid, Ismail Warad, and Senthil Kumar Muniasamy. "Impact of air pollutants on climate change and prediction of air quality index using machine learning models." *Environmental Research* 239 (2023): 117354. **IF: 8.431 (Q1)**
39. Ramalingam, Gomathi, **A. K. Priya**, Lalitha Gnanasekaran, Saravanan Rajendran, and Tuan KA Hoang. "Biomass and waste derived silica, activated carbon and ammonia-based materials for energy-related applications—A review." *Fuel* 355 (2024): 129490. **IF: 7.4 (Q1)**

40. **Priya, A. K.**, Balaji Devarajan, Avinash Alagumalai, and Hua Song. "Artificial intelligence enabled carbon capture: A review." *Science of The Total Environment* (2023): 163913. **IF: 10.754 (Q1)**
41. Nguyen, Hong-Ha T., Ha Tran Nguyen, Shams Forruque Ahmed, Natarajan Rajamohan, Mohammad Yusuf, Ajit Sharma, Priya Arunkumar et al. "Emerging waste-to-wealth applications of fly ash for environmental remediation: A review." *Environmental Research* (2023): 115800. **IF: 8.431 (Q1)**
42. Priya, A. K., Avinash Alagumalai, D. Balaji, and Hua Song. "The potential of biobased agro solutions towards sustainable bioeconomy: A review." *RSC Sustainability* (2023).
43. Mastropetros, Savvas Giannis, Konstantina Tsigkou, Yannis Cladas, **Arun Kumar Priya**, and Michael Kornaros. 2023. "Effect of Nitrogen, Salinity, and Light Intensity on the Biomass Composition of *Nephroselmis* sp.: Optimization of Lipids Accumulation (Including EPA)" *Marine Drugs*, 21, no. 6: 331. <https://doi.org/10.3390/md21060331>. **IF: 6.085 (Q1)**
44. **Priya, A. K.**, Muthiah Muruganandam, Sameh S. Ali, and Michael Kornaros. 2023. "Clean-Up of Heavy Metals from Contaminated Soil by Phytoremediation: A Multidisciplinary and Eco-Friendly Approach" *Toxics* 11, no. 5: 422. <https://doi.org/10.3390/toxics11050422>. **IF: 4.472 (Q1)**
45. Chandrasekarabarathi, Subha, **Priya ArunKumar**, and Rajesh Banu Jeyakumar. "Effect of organic loading on bioelectricity generation potential of dual-chambered microbial fuel cell treating chocolaterie wastewater." *Environmental Progress & Sustainable Energy*: e14081. **IF: 2.824 (Q2)**
46. Gnanasekaran, Lalitha, **A. K. Priya**, S. Thanigaivel, Tuan KA Hoang, and Matias Soto-Moscoso. "The conversion of biomass to fuels via cutting-edge technologies: Explorations from natural utilization systems." *Fuel* 331 (2023): 125668. **IF: 6.609 (Q1)**
47. **Priya, A. K.**, A. A. Jalil, Kingshuk Dutta, Saravanan Rajendran, Yasser Vasseghian, Hassan Karimi-Maleh, and Matias Soto-Moscoso. "Algal degradation of microplastic from the environment: Mechanism, challenges, and future prospects." *Algal Research* (2022): 102848. **IF: 5.276 (Q1)**
48. Elavarasan, S., **A. K. Priya**, S. Bharath, R. Satheeshkanna, and D. Arunraj. "Experimental studies on pervious concrete reinforced with polypropylene fiber." *Materials Today: Proceedings* (2022). **IF: 1.24**
49. Elavarasan, S., S. Poornima, and **A. K. Priya**. "Steel fiber on the recycled aggregate hardened properties of concrete." *Materials Today: Proceedings* (2022). **IF: 1.24**

50. Gnanasekaran, Lalitha, **A. K. Priya**, Ayman A. Ghfar, Karthikeyan Sekar, Madhappan Santhamoorthy, M. Arthi, and Matias Soto-Moscoco. "The influence of heterostructured TiO₂/ZnO nanomaterials for the removal of azo dye pollutant." *Chemosphere* 308 (2022): 136161. **IF: 7.086 (Q1)**
51. **Priya, A. K.**, Lalitha Gnanasekaran, Kingshuk Dutta, Saravanan Rajendran, Deepanraj Balakrishnan, and Matias Soto-Moscoco. "Biosorption of heavy metals by microorganisms: Evaluation of different underlying mechanisms." *Chemosphere* 307 (2022): 135957. **IF: 7.086 (Q1)**
52. **Priya, A. K.**, Lalitha Gnanasekaran, P. Senthil Kumar, A. A. Jalil, Tuan KA Hoang, Saravanan Rajendran, Matias Soto-Moscoco, and Deepanraj Balakrishnan. "Recent trends and advancements in nanoporous membranes for water purification." *Chemosphere* (2022): 135205. **IF: 7.086 (Q1)**
53. Thanigaivel, S., **A. K. Priya**, P. Senthil Kumar, Khoo Kuan Shiong, Tuan KA Hoang, Saravanan Rajendran, and Matias Soto-Moscoco. "Exploration of effective biorefinery approach to obtain the commercial value-added products from algae." *Sustainable Energy Technologies and Assessments* 53 (2022): 102450. **IF: 7.632 (Q1)**
54. Gnanasekaran, Lalitha, **A. K. Priya**, Yasser Vasseghian, Sabah Ansar, and Matias Soto-Moscoco. "Existence of Ti³⁺ and dislocation on nanoporous CdO–TiO₂ heterostructure applicable for degrading chlorophenol pollutant." *Environmental Research* (2022): 113889. **IF: 6.498 (Q1)**
55. Thanigaivel, S., **A. K. Priya**, Lalitha Gnanasekaran, Tuan KA Hoang, Saravanan Rajendran, and Matias Soto-Moscoco. "Sustainable applicability and environmental impact of wastewater treatment by emerging nanobiotechnological approach: Future strategy for efficient removal of contaminants and water purification." *Sustainable Energy Technologies and Assessments* 53 (2022): 102484. **IF: 7.632 (Q1)**
56. **Priya AK**, Jalil AA, Vadivel S, Dutta K, Rajendran S, Fujii M, et al. Heavy metal remediation from wastewater using microalgae: Recent advances and future trends. *Chemosphere* 2022;305:135375.**IF: 7.086 (Q1)**
<https://doi.org/https://doi.org/10.1016/j.chemosphere.2022.135375>.
57. Thanigaivel, S., **A. K. Priya**, Deepanraj Balakrishnan, Kingshuk Dutta, Saravanan Rajendran, and Matias Soto-Moscoco. "Insight on recent development in metallic biomaterials: Strategies involving synthesis, types and surface modification for advanced therapeutic and biomedical applications." *Biochemical Engineering Journal* (2022): 108522. **IF: 3.978 (Q2)**
58. Devarajan, Balaji, V. Bhuvaneshwari, B. Arulmurugan, A. V. N. S. L. Narayana, **A. K. Priya**, V. D. N. Abbaraju, K. S. Mukunthan, Amit Kumar Sharma, Sam Sung Ting,

- and Chandran Masi. "Hybrid Novel Additive Manufacturing for Sustainable Usage of Waste." *Journal of Nanomaterials* 2022 (2022). **IF: 2.986 (Q2)**
59. Thanigaivel, S., **A. K. Priya**, Kingshuk Dutta, Saravanan Rajendran, Karthikeyan Sekar, A. A. Jalil, and Matias Soto-Moscoco. "Role of nanotechnology for the conversion of lignocellulosic biomass into biopotent energy: A biorefinery approach for waste to value-added products." *Fuel* 322 (2022): 124236. **IF: 6.609 (Q1)**
60. **Priya, A. K.**, A. A. Jalil, Kingshuk Dutta, Saravanan Rajendran, Yasser Vasseghian, Jiaqian Qin, and Matias Soto-Moscoco. "Microplastics in the environment: Recent developments in characteristic, occurrence, identification and ecological risk." *Chemosphere* (2022): 134161. **IF: 7.086 (Q1)**
61. **Priya, Arunkumar**, Gururajan Anusha, Sundaram Thanigaivel, Alagar Karthick, Vinayagam Mohanavel, Palanivel Velmurugan, Balamuralikrishnan Balasubramanian et al. "Removing microplastics from wastewater using leading-edge treatment technologies: a solution to microplastic pollution—a review." *Bioprocess and Biosystems Engineering* (2022): 1-13. **IF: 3.11 (Q2)**
62. Gnanasekaran, Lalitha, Saravanan Rajendran, P. Senthil Kumar, **A. K. Priya**, F. Gracia, Mohamed A. Habila, and Karunamoorthy Saravanakumar. "Visible light stimulated binary nanostructure and defect enriched TiO₂-SnO₂ for photocatalysis and antibacterial activity." *Materials Letters* (2022): 131998. **IF: 3.423 (Q2)**
63. **Priya, A. K.**, C. Subha, P. Senthil Kumar, R. Suresh, Saravanan Rajendran, Yasser Vasseghian, and Matias Soto-Moscoco. "Advancements on sustainable microbial fuel cells and their future prospects: A review." *Environmental Research* (2022): 112930. **IF: 6.498 (Q1)**
64. Ramalingam, Gomathi, P. Nagapandiselvi, **A. K. Priya**, and Saravanan Rajendran. "A review of graphene-based semiconductors for photocatalytic degradation of pollutants in wastewater." *Chemosphere* (2022): 134391. **IF: 7.086 (Q1)**
65. Gnanasekaran, Lalitha, Saravanan Rajendran, Hassan Karimi-Maleh, **A. K. Priya**, Jiaqian Qin, Matias Soto-Moscoco, Sabah Ansar, and Chinna Bathula. "Surface modification of TiO₂ by adding V₂O₅ nanocatalytic system for hydrogen generation." *Chemical Engineering Research and Design* (2022). **IF: 3.739 (Q1)**
66. R. Nanmaran, S. Srimathi, G. Yamuna, S. Thanigaivel, A. S. Vickram, **A. K. Priya**, Alagar Karthick, J. Karpagam, V. Mohanavel, M. Muhibbullah, "Investigating the Role of Image Fusion in Brain Tumor Classification Models Based on Machine Learning Algorithm for Personalized Medicine", *Computational and Mathematical Methods in Medicine*, vol. 2022, Article ID 7137524, 13 pages, 2022. <https://doi.org/10.1155/2022/7137524>. **IF: 2.238 (Q2)**

67. Suarez-Chamba, Michael, Saravanan Rajendran, Miguel Herrera-Robledo, **A. K. Priya**, and Carlos Navas-Cárdenas. "Bi-based photocatalysts for bacterial inactivation in water: Inactivation mechanisms, challenges, and strategies to improve the photocatalytic activity." *Environmental Research* (2022): 112834. **IF: 6.498 (Q1)**
68. Kumar, R. Ranjith, S. Thanigaivel, **A. K. Priya**, Alagar Karthick, Chandrabhanu Malla, P. Jayaraman, M. Muhibbullah, Razan A. Alshgari, and Abdunasser Mahmoud Karami. "Fabrication of MnO₂ Nanocomposite on GO Functionalized with Advanced Electrode Material for Supercapacitors." *Journal of Nanomaterials* 2022 (2022). **IF: 2.986 (Q2)**
69. Kumar, R. Ranjith, S. Thanigaivel, Nibedita Dey, **A. K. Priya**, Alagar Karthick, V. Mohanavel, S. Kannadhasan, M. Muhibbullah, and Sameh M. Osman. "Performance Evaluation of Cyclic Stability and Capacitance of Manganese Oxide Modified Graphene Oxide Nanocomposite for Potential Supercapacitor Applications." *Journal of Nanomaterials* 2022 (2022). **IF: 2.986 (Q2)**
70. Thanigaivel, S., **A. K. Priya**, Kingshuk Dutta, Saravanan Rajendran, and Yasser Vasseghian. "Engineering strategies and opportunities of next generation biofuel from microalgae: A perspective review on the potential bioenergy feedstock." *Fuel* 312 (2022): 122827. **IF: 6.609 (Q1)**
71. **Priya, A. K.**, Lalitha Gnanasekaran, Saravanan Rajendran, Jiaqian Qin, and Yasser Vasseghian. "Occurrences and removal of pharmaceutical and personal care products from aquatic systems using advanced treatment - A review." *Environmental Research* 204 (2022): 112298. **IF: 6.498 (Q1)**
72. **Priya, A. K.**, V. Yogeshwaran, Saravanan Rajendran, Tuan KA Hoang, Matias Soto-Moscoso, Ayman A. Ghfar, and Chinna Bathula. "Investigation of mechanism of heavy metals (Cr⁶⁺, Pb²⁺ & Zn²⁺) adsorption from aqueous medium using rice husk ash: Kinetic and thermodynamic approach." *Chemosphere* 286 (2022): 131796. **IF: 7.086 (Q1)**
73. Gnanasekaran, Lalitha, **A. K. Priya**, and F. Gracia. "Orange peel extract influenced partial transformation of SnO₂ to SnO in green 3D-ZnO/SnO₂ system for chlorophenol degradation." *Journal of Hazardous Materials* 424 (2022): 127464. **IF: 14.224 (Q1)**
74. Yogeshwaran, V., and **A. K. Priya**. "Synthesis of Nano-Particles and Its Applications in Heavy Metal Removal from Wastewater." In *Inorganic Materials for Energy, Medicine and Environmental Remediation*, pp. 81-97. Springer, Cham, 2022.

75. Romero-Sáez, M., R. Suresh, N. Benito, Saravanan Rajendran, F. Gracia, Carlos Navas-Cárdenas, **A. K. Priya**, and Matias Soto-Moscoco. "Defective Ce³⁺ associated CeO₂ nanoleaves for enhanced CO oxidation." *Fuel* (2021): 122822. **IF: 6.609 (Q1)**
76. Sumesh, K. R., G. Saikrishnan, P. Pandiyan, L. Prabhu, S. Gokulkumar, **A. K. Priya**, Petr Spatenka, and Syam Krishna. "The influence of different parameters in tribological characteristics of pineapple/sisal/TiO₂ filler incorporation." *Journal of Industrial Textiles* (2021): 15280837211022614. **IF: 3.732 (Q2)**
77. **AK, Priya**. "Adsorption of Molybdenum from Wastewater by Surface Altered Agricultural Solid Waste." *Iranian Journal of Chemistry and Chemical Engineering (IJCCE)* (2021). **IF: 0.759 (Q3)**
78. Yogeshwaran, V., and **A. K. Priya**. "Experimental studies on the removal of heavy metal ion concentration using sugarcane bagasse in batch adsorption process." *Desalination and water treatment* 224 (2021): 256-272. **IF: 1.254 (Q3)**
79. **Priya, A. K.**, R. Suresh, P. Senthil Kumar, Saravanan Rajendran, Dai-Viet N. Vo, and Matias Soto-Moscoco. "A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases." *Chemosphere* (2021): 131344. **IF: 7.086 (Q1)**
80. **Priya, A.K.**, Pachaiappan, R., Kumar, P.S., Jalil, A.A., Vo, D.V.N. and Rajendran, S., 2021. The War using microbes: A sustainable approach for wastewater management. *Environmental Pollution*, p.116598. **IF: 8.071 (Q1)**
81. Gnanasekaran, L., Rajendran, S., **Priya, A.K.**, Durgalakshmi, D., Vo, D.V.N., Cornejo-Ponce, L., Gracia, F. and Soto-Moscoco, M., 2021. Photocatalytic degradation of 2, 4-dichlorophenol using bio-green assisted TiO₂-CeO₂ nanocomposite system. *Environmental Research*, 195, p.110852. **IF: 6.498 (Q1)**
82. Venkatraman, Y., **Priya, A.K.** Removal of heavy metal ion concentrations from the wastewater using tobacco leaves coated with iron oxide nanoparticles. *Int. J. Environ. Sci. Technol.* (2021). <https://doi.org/10.1007/s13762-021-03202-8>. **IF: 2.86 (Q1)**
83. Kumar, V.K., Priya, A.K., Manikandan, G., Naveen, A.S., Nitishkumar, B. and Pradeep, P., 2021. Review of materials used in light weight concrete. *Materials Today: Proceedings*, 37, pp.3538-3539. **IF: 1.24**
84. Yogeshwaran, V., & **Priya, A. K.** (2020). Removal of hexavalent chromium concentration from the aqueous solution using chemically treated sugarcane bagasse powder. *J. Indian Chem. Soc.* 97(9b), 1467-1477. **IF: 0.45**
85. Sebastin, S., **Priya, A. K.**, Karthick, A., Sathyamurthy, R., & Ghosh, A. (2020). Agro Waste Sugarcane Bagasse as a Cementitious Material for Reactive Powder Concrete. *Clean Technologies*, 2(4), 476-491. **IF: 3.49**

86. **Priya, A. K.**, Gokulan, R., Vijayakumar, A., & Praveen, S. (2020). Biodecolorization of Remazol dyes using biochar derived from *Ulva reticulata*: isotherm, kinetics, desorption, and thermodynamic studies. *Desalination and Water Treatment*, 200, 286-295. **IF: 1.15**
87. Elavarasan, S., **Priya, A.K.**, Gurusamy, R.R., Naveeth, J.M.R. and Natesh, S., 2021. Experimental study on compressed earth block using fly-ash stabilizer. *Materials Today: Proceedings*, 37, pp.3597-3600. **IF: 1.24**
88. Elavarasan, S., **Priya, A.K.** and Kumar, V.K., 2021. Manufacturing fired clay brick using fly ash and M– Sand. *Materials Today: Proceedings*, 37, pp.872-876. **IF: 1.24**
89. Visali, C., **Priya, A.K.** and Dharmaraj, R., 2021. Utilization of ecofriendly self-cleaning concrete using zinc oxide and polypropylene fibre. *Materials Today: Proceedings*, 37, pp.1083-1086. **IF: 1.24**
90. Yogeshwaran, V. and **Priya, A.K.**, 2021. Adsorption of lead ion concentration from the aqueous solution using tobacco leaves. *Materials Today: Proceedings*, 37, pp.489-496. **IF: 1.24**
91. Priya, A.K., VigneshKumar, S., Virpanan, N.K., Vivekananthan, V. and Vinothkumar, V., 2021. Water quality analysis and purification through nanomembrane. *Materials Today: Proceedings*, 37, pp.1243-1247. **IF: 1.24**
92. Yogeshwaran V, **Priya A.K**, Thamilselvan R.P, Adlin Rino. M, 2020, “Treatment of Fish Processing Industrial wastewater using Immobilized Jacketed Column Reactor”, *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH*, Vol 9 (03), pp. 6284-6290. **IF: 0.43**
93. Yogeshwaran V and **Priya AK**, 2019, “Removal of Heavy Metals using Nanoparticles – A Review”. *Indian Journal of Environmental Protection*, Vol.39 (01), pp. 17 – 21. **IF: 0.25**
94. Yogeshwaran V and **Priya AK**, 2019, “Industrial Wastewater Treatment Using Advanced Oxidation Process – A Review”. *International Journal of Engineering and Advanced Technology*, Vol.08 (03), pp. 485 – 488. **IF: 5.97**
95. **Priya, A. K. (2018)**. Utilization of Waste Materials as Adsorbents for Color Removal from Textile Effluents-A Review. *Biomed. J. Sci. Tech. Res.*, 2, 1-3. **IF: 0.548**
96. Yogeshwaran, V., & **Priya, A. K.** (2017). Removal of Hexavalent Chromium (Cr6) Using Different Natural Adsorbents–A Review. Available at SSRN 3090245.
97. **Priya, A. K.** 2017. Environmental Impact Assessment in pulp and paper industry. *Journal of Ecophysiology and Occupational Health*, 17, 1-2. **IF:0.111**

98. Ragnath S. and **Priya A.K., 2017**, “Investigation of Water Contamination in Noyyal River in the Reach of Coimbatore City Limits”, International Journal of ChemTech Research, Vol 10, No 11, pp 201-204. **IF:0.819**
99. Nithya M, **Priya AK**, Muthukumar R and Arunvivek GK, 2017, “Properties of Concrete containing waste foundry sand for partial replacement of fine aggregate in concrete”, Indian Journal of Engineering & Materials Sciences, Vol 24, pp. 162-166. **IF: 0.881**
100. Yogeshwaran V and **Priya AK**, 2017, “Removal of Hexavalent Chromium by Adsorption Using Natural Wastes-A Review”, Advances in Recycling and Waste Management, Vol 2, Issue 3. **IF: 4.69**
101. Sruthi.S, **Priya AK**, 2017, “A Review on Eco-Green Geopolymer Concrete”, International Journal of Science and Research, Vol 6, Issue 9, pp. 1167 – 1172.
102. **Priya A K**, Nagan S, 2017, “Bioremediation of color and COD from dye effluent using indigenous and exogenous microbes”, Desalination and Water Treatment, Vol 59, pp. 243–247. DOI:10.5004/dwt.2017.0374. **IF: 1.15**
103. Baskaran T, **Priya A K**, M Nithya, P M Priyanka, 2017, “Biodegradation Approach for an Upcoming Disaster (Plastic)”, Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 2, pp. 560-565.DOI: 10.5958/2249-7315.2017.00109.5. **IF: 8.625**
104. **Priya AK**, 2016, “Phytoremediation of Heavy Metals and its exploitation – Review”, International Journal of Advanced Research, Vol. 4, no.10, 320-323. **IF: 7.337**
105. T. Baskaran, R.Vanitha, **Priya AK**, P.M.Priyanka, 2016, “Experimental Analysis on Recycled Plastic Reinforced Concrete”, International journal of advanced engineering technology, Vol.7, no.2, pp. 1027-1029. **IF: 1.45**
106. Priyanka PM, Karthik T, **Priya AK**, Nithya M, Vanitha R, 2016, “A Study on Intensification of Unfilled Strengthen Segment within Compression by Means of Superficially Bonded CFRP Combinations”, International journal of advanced engineering technology, Vol.7, no.2, pp. 278-281 **IF: 1.45**
107. **Priya AK**, Nagan S, Rajeswari M, Nithya M, Priyanka PM and Vanitha R, 2016, “Rotating biological contactor for the treatment of textile industry wastewater”, International journal of advanced engineering technology, Vol.7, no.1, pp. 209-213. **IF: 1.45**
108. **Priya AK**, Nagan S, Nithya M, Priyanka PM and Rajeswari M, 2016, “Assessment of Tendu Leaf Refuses for the HeavyMetal Removal from Electroplating

- Effluent”, Journal of Pure and Applied Microbiology Vol.10, no.1, pp. 585-591. **IF: 0.483**
109. **Priya AK**, Rajeswari M, Priyanka PM, Nithya M and Vanitha R, 2016, “Evaluation of Strength Properties of Pavement Binder Replaced with Waste Materials as Modifier”, International Journal of ChemTech Research CODEN (USA): IJCRGG Vol.9, No.01 pp 248-252.
110. **Priya AK**, Nithya M, Rajeswari M, Priyanka PM and Vanitha R, 2016, Experimental Investigation on Developifue;ng Low Cost Concrete by Partial Replacement of Waste Sludge, International Journal of ChemTech Research CODEN (USA): IJCRGG Vol.9, No.01 pp 240-247.
111. **Priya AK** & Nagan S, 2015, “Remediation of Heavy Metals from Electroplating Effluent using bacterial Strains in Up flow Immobilized Column Reactor”, Journal of Pure and Applied Microbiology, vol.9, no.2, pp. 1411-1416. **IF: 0.483**
112. **Priya AK**, Nithya M, Rajeswari M, Priyanka PM and Vanitha R, 2015, Structural study of a Multipurpose Auditorium with Modified lenticular girder Roof, IRACST – Engineering Science and Technology: An International Journal (ESTIJ), Vol.5, No.6,pp.364-367.
113. Priyanka PM, **Priya AK**, Vanitha R, Nithya M and Rajeswari M, 2015, “Replacement of Usual Sand by Altered Substitutions in Current Leanings”, IRACST – Engineering Science and Technology: An International Journal (ESTIJ), Vol.5, No.6,pp.359-362.
114. **Priya AK** & Nagan S, 2015, “Bioremediation of Dye Effluent and Metal Contaminated Soil: Low-Cost Method for Environmental Clean up by Microbes”, J Environ. Science & Engg. Vol. 57, No. 2, p. 109-119. **IF: 0.68**
115. Dhaarani S, **Priya AK**, Rajan TV, Kartic DN, 2012, Degradation of various Dyes using Laccase Enzyme, Journal of Environmental Science and Engineering, Vol.54, No 4, pp:489-94. **IF: 0.68 (Scopus)**

Magazine/ Book Publication:

1. **Priya, A. K.**, Balasubramanian Sivasamy, and R. Gomathi. "Applications of Biowaste-Derived Green Nanoparticles: Recent Advancements, Challenges, and Prospects." *Clean Energy Technologies: Status and Perspective of Next-Generation Fuels* (2025): 57-77.
2. Dumka, U. C., **A. K. Priya**, R. Gomathi, and Balram Ambade. "Microplastic in the atmosphere and health." In *Air Pollution and Related Health Risks*, pp. 129-152. Elsevier, 2025.

3. Ramalingam, Gomathi, **A. K. Priya**, and U. C. Dumka. "Air pollution's impacts: Environmental degradation and consequences." In *Air Pollution and Related Health Risks*, pp. 153-172. Elsevier, 2025.
4. **Priya Arunkumar**, and Suresh Sagadevan. "Chalcogenides-Based Nanomaterials for Contaminant Removal in Wastewater Treatment." In *Structural and Chemical Features of Chalcogenides*. IntechOpen, 2024.
5. Mastropetros, Savvas Giannis, Konstantina Tsigkou, Yannis Cladas, **Arun Kumar Priya**, and Michael Kornaros. "Effect of Nitrogen, Salinity, and Light Intensity on the Biomass Composition of *Nephroselmis* sp.: Optimization of Lipids Accumulation (Including EPA)." *Marine Drugs* 21, no. 6 (2023): 331.
6. **Priya, A. K.**, D. Balaji, J. Vijayaraghavan, J. Thivya, and R. Anand. "The Role of Microbes in the Degradation of Plastics and Directions Toward Greener Bioplastic." In *Environmental Management Technologies*, pp. 181-200. CRC Press, 2022.
7. **Priya A K**, Saravanakumar R, Balaji D, Elavarasan, Kavinkumar, Senthilkumar, *Smart Healthcare Technology Challenges and Future Perspective*, IGI Global Publication, 2022.
8. **Priya A K**, *Synthesis of Nano-Particles and Its Applications in Heavy Metal Removal from Wastewater, Inorganic Materials for Energy, Medicine and Environmental Remediation*, Springer, 2021.
9. Pandiyan and **Priya, A. K.**, *Municipal Solid Waste as a Renewable Energy Source for Electric Power Generation in India - A Feasibility study – IEI Technical Volume*
10. Dr Nithya M, **Dr A K Priya**, *Sustainability in Construction Industry Through Zero Waste Technology in India – IEI Technical Volume*
11. D Balaji, V Bhuvaneshwari, **Dr A K Priya**, *Hybrid Assessment of Technique for Zero Waste – A Critical Review – IEI Technical Volume*
12. Mrs C Subha, **Dr A K Priya**, *A Mini Review – Modifications of Components for Enhancing the Power Production of Microbial Fuel Cell Treating Food Wastewater – IEI Technical Volume 2020*
13. *Smart Waste Management and Energy Extraction from Waste in Indian Smart Cities – A Review, Contaminants and Clean Technologies*, (2020) ISBN9780429275852 (Chap – 19)
14. *Innovative Applications in Engineering & Technology*, Jupiter Publication Consortium (JPC), Chennai, Tamil Nadu, (2017) ISBN: 978-93-86388-04-9 (Chap – 1).
15. *RO Brine Management in Indian Industry*, Water Today Pvt. Ltd. *Uniting the Vibrant World of Water* (2015).

PhD Research Projects (Ongoing):

1. Mr. Yogeshwaran V (Reg No 17141697133) – Experimental Study on the removal of heavy metals in waste water from electroplating industry. **(Completed)**
2. Mr. Elavarasan S (Reg No 20141691113) - Study of Interlocking Stabilised Compressed Earth Masonry Block using Industrial Waste Sludge
3. Mr. V. Kavinkumar (Reg No 20141691104) - Air void Characterisation of Foam Concrete incorporated with Novel Self- Curing Catalyst.
4. Ms Shuba (Registration No 17241891136) – Power generation from wastewater using single chambered air cathode using microbial fuel cell
5. Mr. Manoj K M (Reg No 21141697198) - “Experimental Study On Heavy Metals Removal Form Tannery Effluent Using Nanocomposites Derived From Agro-Wastes”.
6. Arjun Mohan A S (Reg No 23141691136) - Photo catalytic treatment of waste water from kataray reservoir with metal nano particles prepared from non-ferrous metal
7. Ms Angalien Marry (Reg No 22241697129) - Experimental investigation of utilizing the bioplastic caplet as an additive compound in the enhancement of bio-composting process of municipal solid waste management system
8. Gomathi (Full Time) (Reg No 21237997123) - Photocatalyst for wastewater treatment using nanomaterials.

Online Course Completed:

- General Course on Intellectual Property (WIPO Academy)
- Introduction to patent Corporation Treaty (WIPO Academy)
- Introduction to Research
- Geoenvironmental Engineering (Environmental Geotechnology)
- Outcome based pedagogic principles for effective teaching
- Patent Drafting for beginners
- Environmental Remediation of contaminated sites
- Teaching and Learning in Engineering (TALE)
- Patent law for Engineers and Scientists

Completed Projects:

Number of PhD Completed: 01; Pursuing: 06

Number of ME Projects Completed: 09

Number of BE Project Completed: 12

Programme Organized:

1. Webinar on **“Empowering Women Globally: Education and Career Opportunities in Abroad”** on **12.12.2024** by IEEE KPRIET WIE AG. **Role:** Convener
2. ISR activity on **“Suicide Awareness”** to corporation **Girls Higher Secondary School, Ranganathapuram** on **09.09.2024** by IEEE KPRIET WIE. **Role:** Convener
3. Guest Lecture on **“Women Health”** on **13.08. 2024** by IEEE KPRIET WIE. **Role:** Convener
4. Pre-university programme **STEM program “FOLDSCOPE”** on 29.06.2024 by IEEE KPRIET WIE. **Role:** Convener
5. Webinar on **“Women Empowerment and Protection: Combating Human Trafficking”** on **23.06.2024** by IEEE KPRIET WIE.
6. All India Seminar on **“Microplastics Accumulation Prediction Using ML: Environmental and Public Health Impacts”** on 28.07.2023 by Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
7. Seminar on **“Innovative Trends and Aspects of Nanotechnology: Fueling the Chemical Industry Future”** on 21.09.2023 to 22.09.2023 by Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
8. All India Seminar on **“Wastewater Treatment Systems: Water Efficient Technologies and Opportunities”** on 22.12.2022 by Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
9. All India Seminar on Advances in **“Hazardous Waste Management Technology”** by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
10. Webinar on **“Current Waste Management Practices in India”** on **30.12.2021** organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
11. Webinar on **54th Engineers’ Day”** on **15.09.2021** organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
12. Webinar on **“Concrete- An overview of current and future trends”** on **11.08.2021** organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
13. Webinar on **“Observational network and weather services by India Meteorological Department”** on 09.07.2021 organized by CFRD, KPR Institute of

- Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
14. Monthly meeting on Climate Change and Challenges on 05.09.2020 organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
 15. Monthly meeting on Design on lateral Loads – wind on 25.07.2020 organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore in association with IEI, Coimbatore. **Role:** Convener
 16. Online STTP on Disaster Mitigation and Management on 10.08.2020 to 15.08.2020, Sponsored by AICTE and organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
 17. National Workshop on “Women Entrepreneurship and Skill Development” on 12th September 2019, Sponsored by DST – SERB and organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
 18. National Seminar on Disaster Mitigation and management on July 12th 2019, Sponsored by DST – SERB and organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
 19. Guest lecture on Composite Cement – A Sustainable Product on January 28th of 2019, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
 20. National Workshop on Contemporary Issues in Concrete and Construction Industry on 10th & 11th January 2019, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
 21. Centre for Faculty Development, Anna University, Chennai sponsored Faculty Development Training Programme (FDTP) on “Concrete Technology” organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore on 10th to 22nd Dec 2018. **Role:** Convener
 22. National Workshop on Advancements & Challenges in Water Supply Systems on 11th & 12th August 2017, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener

23. Guest lecture on Railway construction and maintenance on 11th July 2017, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
24. 2nd International Conference on Sustainable Practice in Civil Engineering on 10th & 11th April 2017, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
25. National Workshop on Advancements in Indian Railways – Construction and Maintenance on 17th & 18th February 2017, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener
26. National workshop on Introduction to Research: Preparation of Research Proposal and Journal Articles on 24th June 2016, organized by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. **Role:** Convener

International Conference Publication:

1. **Elavarasan S and Priya AK**, Steel Fiber on the Recycled Aggregate Hardened Properties of Concrete, “4th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING (ICAME 2022)”, organised by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India during March 24-26, 2022.
2. **Priya AK**, Microbial Fuel Cell for Treating Seafood Processing Wastewater, International Conference on Recent Trends in Applied Sciences And computing Engineering (RTASCE 2021) During 17-19 December, 2021, VIT, Bhopal.
3. **Priya AK**, Utilization of ecofriendly self-cleaning concrete using zinc oxide and polypropylene fibre, National Conference on 22 & 23 June 2020, Sona College of Technology.
4. Priya AK, Rainfall Runoff Modelling using GIS, International Conference on Innovative Engineering Initiatives on 13 & 14 March 2019, SRM TRP Engineering College, Tiruchirappalli.
5. T Aravindh Kumar, R Aneesdeen, CA Brinta, L Karthik, **Priya AK**, Feasibility Study on Flexible Porous Surface Mat Using E waste and Specification for Paving Machine, International Conference on Innovative Engineering Initiatives on 13 & 14 March 2019, SRM TRP Engineering College, Tiruchirappalli.

6. **Priya AK**, Micro Filtration Through Polysulfone Based Water Minimizer, International Conference on Industrial Water, Energy and Environment 25-26 January 2019, CODISSIA, Coimbatore.
7. Yogeshwaran V and **Priya AK** , Removal of Heavy Metals Using Nano particles as an Adsorbent – A review, International Conference on Emerging Trends in Engineering and Technology (ICETET), 9th &10th March 2018, Pandian Saraswathi Yadav Engineering college.
8. **Priya AK**, Experimental analysis of recharging ground water and stagnant water management through infiltration, International conference on emerging trends in Engineering, Science and Sustainable Technology (ICETSST – 2018), April 2018, Erode Sengunthar Engineering College, Erode.
9. **Priya AK**, Rakshna A, Shamroze S, Sureshkumar P, Usha Nandhini S, Analysis of physicochemical quality of drinking water and its health impact, International conference on Engineering and advancement in Technology, March 2018.
10. **Priya AK**, Utilization of copper slag as a replacement for sand in concrete, 2017 ISRPM-JETR Convention on Innovative Technological Scientific Research Strategies in Science-Engineering – Management Applications & Medical Technology, October 2017, Innovative scientific research Malaysia.
11. Muthukumaran R, Nithya M, **Priya AK**, Aparna V, Vivek D, Compressive strength modeling using Artificial Neural Network for concrete with waste foundry sand as partial fine aggregate, International Conference on ICACMS 2017, September 2017, IIT Chennai.
12. **Priya AK**, S Shanoffar Farveen, S Niranjani Devi, K Rubini and R Subhashini, A Potential Biosorption Treatment in Landfill Leachate Treatment using Bio Material, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
13. **Priya AK**, A Jayabalajee, G Govindhraj, E Archana, A Guruprabhu, Potential of Pupa Waste Powder as Biosorbent for Pollutant Removal in Domestic Wastewater, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
14. **Priya AK**, V Arul Shanger, V Deepika, G C Dharan and M Parthiban, Production of Methane and Carbon Di Oxide from Slaughter Waste, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
15. **Priya AK**, V Arul Shanger, V Deepika, G C Dharan and M Parthiban, A Review on Trends emerge and prophecy for Biogas Production in Upcoming Countries, 2nd International

Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.

16. **Priya AK**, S Shanoffar Farveen, S Niranjandevi, K Rubini and R Subhashini, The Review of Lechate Treatment by Adsorption, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
17. **Priya AK**, K Aarthi, V Deepikavathy, Developing Low Cost Concrete by Partial Replacement of Waste Sludge, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
18. **Priya AK**, A Jaishree and S Aruljothi, An Economical Method Bioremediation of Dye Effluent and Metal Contaminated Soil, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
19. **Priya AK**, Anushree S Valappol, C A Brinta, B M Harsheny, Experimental Analysis on Recycled Plastic Reinforced Concrete, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
20. **Priya AK**, Aravindh Kumar T, Karthick S, Balaji M, Replacement of Usual Sand by Altered Substitutions in Current Leanings, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
21. Aparna, V, Vivek, Sumithaa, Nithya and **Priya AK**, Experimental Investigation on behaviour of axially loaded concrete filled steel tubes, 2nd International Conference on Sustainable Practices in Civil Engineering, April 2017, KPR Institute of Engineering and Technology, Coimbatore.
22. **Priya AK**, Nithya M, Rajeswari.M, Priyanka.P.M and Vanitha.R, Bioremediation of textile effluent using rotating biological contactor, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.
23. Rajeswari.M, **Priya AK**, Priyanka.P.M and Vanitha.R, Experimental investigation on the seismic behaviour of monolithic column to footing connection, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.
24. Nithya M, **Priya AK**, Rajeswari.M, Priyanka.P.M and Vanitha.R, Assessment of compressive strength of concrete containing used foundry sand using neural network, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.

25. Nithya M, **Priya AK**, Rajeswari.M, Priyanka.P.M and Vanitha.R, Effect of waste foundry sand as partial replacement of sand on the strength of concrete, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.
26. Priyanka.P.M, **Priya AK**, Nithya M, Rajeswari. and Vanitha.R, Analytical investigation on the seismic behaviour of precast pocket foundation connection, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.
27. R.Vanitha, **A.K.Priya**, P.M.Priyanka, M.Rajeswari, M. Nithya, Experimental analysis on recycled plastic reinforced concrete, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.
28. Priyanka.P.M, Karthik. T, **Priya AK**, Vanitha. R and Ramya.K, Investigation on the Behaviour of Hollow Structural Steel Column Strengthened with CFRP under Compression, International Conference on ICEEE, March 2016, Coimbatore Institute of Technology, Coimbatore.
29. **Priya AK**, Experimental Investigation on Developing Low Cost Concrete by Partial Replacement of Waste Sludge, International Conference on, April 2015, KPR Institute of Engineering and Technology, Coimbatore.
30. **Priya AK**, Evaluation of strength properties of pavement binder replaced with waste materials as modifier, International Conference on, April 2015, KPR Institute of Engineering and Technology, Coimbatore.
31. **Priya AK**, Bioremediation of metal contaminated soils, International Conference, February 2014, Aishwarya College of Engineering and Technology, Bhavani.
32. **Priya AK**, Evaluation of Tendu Leaf reject used for heavy metal removal from Electroplating, International Conference, February 2014, Aishwarya College of Engineering and Technology, Bhavani.
33. **Priya AK**, Adsorption of Heavy Metals from Metal Solution using Biosorbents, International Conference, February 2014, Aishwarya College of Engineering and Technology, Bhavani.
34. D Navamani Karthic, **A K Priya**, Biological Treatment for plastic wastes, International Conference, April 2012, Madurai Kamaraj University, Madurai.
35. Vinothini RM, **Priya AK**, Treatment of dairy effluent by trickling filter- reactor setup and performance evaluation, International Conference, April 2012, Madurai Kamaraj University, Madurai.
36. Mahalakshmi G, **Priya AK**, Treatment of textile effluent using biosorption technique, International Conference, April 2012, Madurai Kamaraj University, Madurai.
37. Selvarani B, **Priya AK**, Removal of cadmium ions from aqueous solution by biosorption using sawdust, International Conference, April 2012, Madurai Kamaraj University, Madurai.

38. Mahalakshmi G, **Priya AK**, Potential Use of Tendu Leaf Refuse as a Biosorbent: A solution to manmade Disaster, International Conference on ICCDM, January 2012, Noorul Islam University, Nagercoil.
39. D Navamani Karthic, **A K Priya**, Biodegradation Approach for an upcoming Disaster, International Conference on ICCDM, January 2012, Noorul Islam University, Nagercoil.
40. Prabhu kumar SN, Imayavalli K, Iswarya S, **Priya A K**, Bioremediation of dye effluent and contaminated soils, International Conference, February 2011, K.S.R college of Engineering, Tiruchengode.
41. Imayavalli K, Iswarya S, **Priya A K**, Optimization of sludge generation from fruit juice industry using aerobic treatment process, International Conference, February 2011, K.S.R college of Engineering, Tiruchengode.
42. Vinothini RM, Keerthika S, **Priya AK**, Degradation of paper mill effluent using various microorganisms with microbial flocs, International Conference, February 2011, K.S.R college of Engineering, Tiruchengode.
43. **Priya AK**, Study on physical and biochemical parameters of paper mill effluent with microbial flocs, International Conference on ICROME, April 2010, Noorul Islam University, Nagercoil.
44. **Priya AK**, Optimization of physical and Biochemical parameters of paper mill Effluent with microbial flocs, International Conference on Sustainable water resource Management and Treatment Technologies: Water 2011, January 2011, NEERI, Nagpur.

National Conference Publication:

1. Yogeshwaran V and **Priya AK**, Experimental study on Mechanical Properties of vermiculite concrete with rice husk ash and silica fume as mineral admixtures, National conference of Eco friendly Infrastructure development EID – 18, 22nd March 2018, Karunya University Coimbatore.
2. Yogeshwaran V and **Priya AK**, Removal of Heavy Metals using Nanoparticles – A review, National conference of Ground Enhancement for Engineering Practices, 12th & 13th April 2018, Karunya University Coimbatore.
3. **Priya. A. K.**, Chemically Treated Pupa Waste as an efficient adsorbent for pollutant removal in domestic wastewater, National Conference on Advanced Healthcare Materials and processing in Medical Technology, December 2017, SVS College of Engineering, Coimbatore.
4. **Priya.A.K** , Aparna.V, Vivek.D, Nithya.M, Approaches to Enhance the Education to Develop Quality, National Conference on 19th ISTE Annual Convention 2016, December 2016, Dr. NGP Institute of Technology, Coimbatore.

5. Aparna.V, **Priya.A.K**, Nithya.M, Vivek D, Education Excellence for Teaching, National Conference on 19th ISTE Annual Convention 2016, December 2016, Dr. NGP Institute of Technology, Coimbatore.
6. Vivek.D, Nithya.M, Aparna.V, **Priya.A.K**, Research Perspectives in International Entrepreneurship, National Conference on 19th ISTE Annual Convention 2016, December 2016, Dr. NGP Institute of Technology, Coimbatore.
7. Nithya.M, Vivek.D, **Priya.A.K**, Aparna.V, Technological Integration in Advanced Learning, National Conference on 19th ISTE Annual Convention 2016, December 2016, Dr. NGP Institute of Technology, Coimbatore.
8. **Priya AK**, Experimental study on Fibre Reinforced self consolidating concrete, National Conference on, April 2016, KPR Institute of Engineering and Technology, Coimbatore.
9. **Priya AK**, Exploitation of Copper Slag as a Replacement for Fine Aggregate in Concrete, National Conference on, April 2016, KPR Institute of Engineering and Technology, Coimbatore.
10. **Priya AK**, Water use, biological treatment and recycling of waste water in pulp and paper industry, National Conference on, April 2016, KPR Institute of Engineering and Technology, Coimbatore.
11. **Priya.A.K**, Nithya.M, Rajeswari.M, Priyanka.P.M, Eminence in Higher Education, National Conference on Indian Education System: Sustainability and Global Competitiveness, December 2015, KPR Institute of Engineering and Technology, Coimbatore.
12. Nithya.M,**Priya.A.K**, Rajeswari.M, Priyanka.P.M, Innovations In Higher Education In India, National Conference on Indian Education System: Sustainability and Global Competitiveness, December 2015, KPR Institute of Engineering and Technology, Coimbatore.
13. M.Rajeswari, **A.K.Priya**, K.Nithya and P.M.Priyanka, Trends in Global Higher Education, National Conference on Indian Education System: Sustainability and Global Competitiveness, December 2015, KPR Institute of Engineering and Technology, Coimbatore.
14. Priyanka.P.M , Karthik. T, **Priya.A.K**, Nithya.M, Rajeswari.M, Quality Assurance in Higher Education, National Conference on Indian Education System: Sustainability and Global Competitiveness, December 2015, KPR Institute of Engineering and Technology, Coimbatore.
15. Vanitha. R,**Priya.A.K**, Priyanka.P.M,Nithya.M and Karthik. T, Technology Management in Higher Education, National Conference on Indian Education System: Sustainability and

Global Competitiveness, December 2015, KPR Institute of Engineering and Technology, Coimbatore.

16. **Priya AK**, Bioremediation of Dye Effluent and contaminated Soil, National Seminar on Advancement in green Technology for pollution free Energy sources, August 2014, JCT College of Engineering and Technology, Coimbatore.
17. Vinothini RM, **Priya AK**, Improvement of Dairy effluent Treatment by Ash clay balls media filled trickling filter, National Conference on, April 2012, KCT, Coimbatore.
18. Mahalakshmi G and **Priya A K**, Treatment of textile effluent using tendu leaf refuse, a novel green technological approach for treatment of wastewater, National Conference, March 2012, AC tech Anna university, Chennai.
19. Vinothini RM, **Priya AK**, Operational and design considerations of trickling filter reactor for handling the current environmental issues in dairy industry, National Conference on Advancement in Civil Engineering, March 2012, SRM University, Chennai.
20. Vinothini RM, **Priya AK**, Design and Performance evaluation of trickling filter for treating dairy effluent, National Conference, March 2012, Karpagam college, Coimbatore.
21. Selvarani B, **Priya AK**, Uptake cadmium (II) ion from aqueous solution using rice husk as a very low cost adsorbent, National Conference on Quest for Civil Engineering, March 2012, SRM University, Chennai.
22. Selvarani B, **Priya AK**, Removal of lead(II) ion from aqueous solution using sawdust, National Conference, March 2012, Rajaas Engineering College, Tirunelveli.
23. Mahalakshmi G and **Priya A K**, Conversion of a land contaminant into Biosorbent for Treatment of Textile effluent, National Conference on WWT, February 2012, Coimbatore Institute of Technology, Coimbatore.
24. Navamani Kartic D, **Priya AK**, Biodegradation of a toxic pesticide, National Conference on RACEE 2012, January 2012, NIT Rourkela.
25. Iswarya S, **Priya A K**, Prabhukumar SN, Treatability Study of Textile Effluent Using Rotating Biological Contactor, National Conference on ETET, April 2011, Anna university of technology, Madurai.
26. Imayavalli,k, **Priya A K**, Prabhukumar SN, Optimization of physical, chemical and biological parameters of fruit juice industry effluent using various microorganisms, National Conference on ETET, April 2011, Anna University of technology, Madurai.
27. Iswarya S , Imayavalli,k, **Priya A K**, Prabhukumar SN, Efficiency of Rotating Biological Contactor in Treating Textile Effluent, National Conference on NCIMMBS, April 2011, Kongu College of Eng, Erode.
28. SN Prabhu kumar, **Priya AK**, Bioremediation of dye effluent and contaminated soils, National Conference on NCIMMBS, April 2011, Kongu College of Eng, Erode.

29. Dharani, **Priya AK**, Decoloration & Degradation of Textile Dyes using Laccase Enzyme & Optimization of Reaction condition using RSM, April 2011, Anna University of Technology, Trichirappalli.
30. Dharani, **Priya AK**, Treatment of dyeing effluent using Laccase enzyme, National Conference on, March 2011, Government College of Technology in collaboration with Anna University of Technology – Coimbatore.
31. **Priya AK**, Effect of physicochemical parameters on settleability of activated sludge flocs using various microorganisms, National Conference on RACE 2009, April 2009, Sengunthar Engineering college.
32. **Priya AK**, Degradation and Decoloration of paper and pulp mill effluent using microorganisms in batch system, National Conference on Innovative practices for sustainable energy and waste management, April 2009, Shri Ramakrishna Institute of Technology, Coimbatore.
33. **Priya AK**, Effect of pH and chemical parameters on settleability of activated sludge flocs using microorganisms, National Conference on ICE 09, April 2009, Kumaraguru college of Technology, Coimbatore.
34. **Priya AK**, Effect of pH, temperature and biochemical parameters of wastewater using microorganisms with microbial flocs, National Conference on, April 2009, Kalasalingam college of Engineering, Krishnakoil.
35. **Priya AK**, Study on physical and biochemical parameters of paper mill effluent with microbial flocs, National Conference on Emerging Trends and Innovations in Chemical Engineering, March 2009, St Peter college of Engineering and Technology, Chennai.

Workshop/Seminar/FDP/Conference attended:

Short Term Training Programme:

- Faculty development workshop on Effective Teaching and Learning Practices for Design and Operation of Water Supply Systems under the scheme of PMMMNMTT, MHRD organized by National Institute of Technology, Warangal on 20th May to 25th May 2019.
- TEQIP sponsored Short term course on Recent Advancements in Water Resources and Environment Engineering organized by IIT Indore on 22nd April to 27th April 2019
- AICTE Sponsored Short term training program on Membrane Technologies for Water and Wastewater Treatment (MTWWT – 2018) organized by IITM, Chennai on 12th to 17th November 2018.
- TEQIP sponsored Short term course on Sustainable Water Resource Management under changing climate organized by IIT Indore on 28th May to 2nd June 2018.

- FDP on River Basin Management for sustainable Development organized by Sri Eshwar College of Engineering, Coimbatore on 2nd to 6th May, 2017.
- TEQIP-II sponsored FDP on Environmental Pollution: Monitoring and control organized by Delhi Technological University, Delhi on 24th to 28th October 2016.
- Training on Environmental Engineering Instruments and Techniques organized by Centre for Bioscience and Nanoscience Research, Coimbatore on 6th & 7th November 2015.
- FDP on Biological treatment of Wastewater: Innovations, Perceptions and Challenges organized by Government College of Technology, Coimbatore on 25th to 27th February 2014.

National Workshop

- National workshop on Advancement in Construction Industry organized by Sathyabama University, Chennai on 14th September 2017.
- National workshop on Scientific Educational Practices organized by KPR Institute of Engineering and Technology, Coimbatore on 22nd & 24th April 2017.
- National workshop on Make in India Awareness Workshop on Intellectual Property Rights organized by KPR Institute of Engineering and Technology, Coimbatore on 24th & 25th February 2017.
- National workshop on “Advancements In Indian Railways – Construction And Maintenance” organized by KPR Institute of Engineering and Technology, Coimbatore on 17th & 18th February 2017.
- National workshop on Fluid Mechanics organized by Kathir College of Engineering 20th to 30th May 2014.
- National workshop on Application of Remote Sensing and GIS in Civil Engineering organized by EBET Institute of Technology, Kangeyam on 10th Jan 2014.
- National workshop on Engineering Mechanics organized by Kathir College of Engineering on 25th Nov to 5th Dec 2013.
- National workshop on Decentralized wastewater treatment system organized by Thiagarajar College of Engineering 06th Dec 2010.
- National workshop on Recent advances in Bioremediation & phytoremediation of toxic pollutants organized by Coimbatore Institute of Technology on 22nd Feb 2008.

Additional Academic Activities:

- ANO/NCC Coordinator
- R & D Coordinator
- NAAC Coordinator
- NBA Coordinator
- Coordinator, Board of studies
- Project Supervisor for PG & UG students
- Industrial Visit coordinator

I hereby declare that all the details given above are true to the best of my knowledge and belief

Place: Coimbatore

Date:



(Priya.A.K)