

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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## Curriculum Vitae



### Brief Profile: 1-2 paragraphs (not exceeding 500 words)

**Dr. R. Gandhimathi** is an Assistant Professor, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli, India. She obtained her B.E. degree in Civil Engineering from Govt. College of Engineering, Salem (Madras University), M.E. in Environmental Engineering from College of Engineering, Guindy (Anna University) and Ph.D. in Environmental Engineering from Indian Institute of Technology Madras. Her research area includes wastewater treatment, contaminant transport modeling and solid waste management. She has been working specifically on removal of heavy metals and dyes by adsorption using low cost adsorbents and waste materials, removal of colour and organic pollutants by various advanced oxidation processes such as Fenton, electro Fenton, peroxicoagulation etc., leachate treatment by coagulation and electro coagulation and advanced oxidation process, experimental investigation and numerical modeling of contaminant transport through saturated soil mass and bacterial decolourization of textile azo dyes. She has made significant contributions in each of these areas. She has guided 11 B. Tech., 39 M. Tech. and 2 Ph. D. projects and she is currently guiding 3 Ph.D. Scholars and 4 M. Tech. students. She has been teaching both theory and laboratory courses for B.Tech., M. Tech. and research students. She has introduced 3 new experiments in "Environmental Microbiology and Engineering Laboratory" for M.Tech. Environmental Engineering. For the past nine years she has been in-charge for Environmental Engineering laboratory. She has been actively involved in the modernization of Environmental Engineering laboratory and purchased equipments worth of 2.5 crores to strengthen various research areas in Environmental Engineering field. She has been a member in the many committees in the department and institute level such as work load and time table committee, department purchase committee, department project evaluation committee, stock verification officer, and water purifier / water doctor purchase committee. She has also regularly been on the technical program committee for MOMENTS, which is a national symposium held annually.

To impart the knowledge in the field of Environmental Engineering, she has organized 3 short term courses under QIP and 1 self supported course for faculty from reputed Engineering Colleges. She has also organized one week workshop on "ISO 14001:2004" for M. Tech. Environmental Engineering students. She has completed one DST sponsored project (13.2 lakhs) under Fast Track Research Proposal for Young Scientists. Under this project, she procured the advanced equipments and software for the cost of 8 lakhs. She is a member in various professional bodies and reviewer for many Elsevier journals of her discipline. She has published **5 papers in American Society of Civil Engineers**, which is more credential to her research work. One of her paper titled "Trends in Electro-Fenton process for Water and Wastewater Treatment: An overview" published in the journal "Desalination" was listed in Top 5 Most Downloaded Articles in 2013.

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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2. Designation: Assistant Professor
3. Office Address: Department of Civil Engineering  
National Institute of Technology  
Tiruchirappalli- 620 015
4. Telephone (Direct) (Optional): +91 431 2503171  
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5. Email (Primary): rgmathii@nitt.edu      Email (Secondary) : [rgmathii@gmail.com](mailto:rgmathii@gmail.com)
6. Field(s) of Specialization: Environmental Engineering

**7. Employment Profile**

Job Title	Employer	From	To
Lecturer	Kongu Engineering College, Perundurai.	01.06.2000	14.07.2003
Ph.D. Research scholar	Indian Institute of Technology Madras, Chennai.	30.07.2003	14.11.2006
Lecturer (TEQIP)	National Institute of Technology , Tiruchirappalli – 620 015.	17.11.2006	05.11.2008
Assistant Professor (AGP 7000)	National Institute of Technology , Tiruchirappalli – 620 015.	06.11.2008	05.11.2011
Assistant Professor (AGP 8000)	National Institute of Technology , Tiruchirappalli – 620 015.	06.11.2011	Till date

**8. Academic Qualifications (From Highest Degree to High School)**

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Indian Institute of Technology Madras, Chennai-36.	2003-2008	-	Environmental Engineering
M.E.	College of Engineering, Guindy, Anna University.	1998-2000	First class with distinction	Environmental Engineering
B.E.	Govt. College of Engineering, Salem, Madras University	1994-1998	First class with distinction	Civil Engineering
HSC	St. Mary's Hr. Sec. School, Salem / State Board	1993-1994	86.92	Maths Biology
SSLC	Sri Sarada Vidyalaya Hr. Sec school, Salem / State Board	1991-1992	84.8	-

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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9. Academic/Administrative Responsibilities within the University

<b>Position</b>	<b>Faculty / Department / Centre / Institution</b>	<b>From</b>	<b>To</b>
Lab-Incharge	Civil / Environmental Engineering Laboratory	18-07-2007	Till late
Work Load and Time Table Committee	Civil Engineering	January 2010	May 2013
		June 2014	December 2015
Coordinator, Faculty meetings	Civil Engineering	July 2007	June 2008
Purchase Committee member	Civil Engineering	January 2009	December 2011
Chairperson Class committee / B. Tech. / III Semester	Civil Engineering	July 2012	December 2012
Chairperson Class committee / B. Tech. / VI Semester	Civil Engineering	January 2013	May 2013
Chairperson Class committee / B. Tech. / III Semester	Civil Engineering	July 2013	December 2013
Chairperson Class committee / M.Tech. / II Semester	TEM / Civil Engineering	January 2014	May 2014
Chairperson Class committee / B. Tech. / VI Semester	Civil Engineering	January 2016	May 2016
Chairperson Class committee / B. Tech. / VII & VII Semester	Civil Engineering	July 2016	May 2017
Purchase Committee member / Water Purifier	Institution	July 2009	-
Stock verification officer	Production Engineering	2009	2013
Stock verification officer	Electrical Engineering	2013	2015
Stock verification officer	Production Engineering	2015	2016
Certificate Verification / M. Tech. / Common counselling	Institution	May 2015	-
Member, biogas plant	Institution	September 2014	-
Warden	OPAL Hostel	November 2015	Till date

10. Academic/Administrative Responsibilities outside the University

<b>Position</b>	<b>Institution</b>	<b>From</b>	<b>To</b>
DC member	Anna University, Coimbatore	August 2008	August 2015
DC member	Anna University, Chennai	December 2012	Till date
DC member	Bharathidasan University, Tiruchirappalli	June 2013	Till date
BoS Expert Member	Adhiyamaan College of Engineering, Hosur	August 2014	July 2016
DC member	Anna University, Chennai	January 2015	Till date
DC member	Anna University, Chennai	June 2015	Till date

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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11. Awards, Associateships etc.

<b>Year of Award</b>	<b>Name of the Award</b>	<b>Awarding Organization</b>
1996-1997	Endowment Scholarship	Madras University
1996-1997	Award	Salem districts Civil Engineering association

12. Fellowships

<b>Year of Award</b>	<b>Name of the Fellowship</b>	<b>Awarding Organization</b>	<b>From (Month/Year)</b>	<b>To (Month/Year)</b>
-	-	-	-	-

13. Details of Academic Work

(i) Curriculum Development

- B. Tech. Civil Engineering / Electives / Environmental Engineering
- M. Tech. Environmental Engineering

(ii) Courses taught at Postgraduate and Undergraduate levels

**B. Tech.**

1. Environmental Engineering I and II
2. Models for Air and Water Quality
3. Solid Waste Management Techniques
4. Environmental Impact Assessment
5. Basic Civil Engineering
6. Engineering Mechanics
7. Environmental Engineering Laboratory
8. Engineering Graphics
9. Computer Aided Engineering Graphics
10. Design and Drawing (Public Health)

**M. Tech.**

1. Contaminant Transport Modeling
2. Water and Air Quality Models
3. Transport of Water and Wastewater
4. Environmental Chemistry and Microbiology
5. Solid and Hazardous waste Management
6. Environmental Engineering and Microbiology Laboratory
7. Environmental Quality Measurements Laboratory

(iii) Projects guided at Postgraduate level

<b>Academic Year</b>	<b>Title of the Project</b>
2007-2008	<ol style="list-style-type: none"> <li>1. Co-digestion of vegetable and fruit waste using anaerobic digester</li> <li>2. Anaerobic treatment of distillery spent wash – a study on upflow anaerobic fixed film reactor</li> <li>3. Modeling of Leachate Migration From Open Dumping Site</li> </ol>

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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	4. Utilization of Industrial Welding Slag for the Production of Low Cost Building Materials
2008-2009	5. Fixed film Biomethanation of Distillery Spent Wash 6. Characterization and Pre treatment of leachate from municipal solid waste open dumping site 7. Biosorption of Heavy metal ions from aqueous solution by water hyacinth 8. Extraction of Dyes using Liquid Emulsion Membrane
2009-2010	9. Batch removal of basic dyes from aqueous solution by adsorption on Fly ash and Bottom ash: Equilibrium Isotherms and kinetic studies
2010-2011	10. Behavior of chloride through a saturated soil mass: A Horizontal Column Experimental study 11. Experimental and Modelling studies on batch and fixed bed adsorption of crystal violet from aqueous solution onto bottom ash
2011-2012	12. Utilization of Textile and Domestic Waste Sludge as Brick Material 13. Experimental Investigation of Cadmium Transport in Homogeneous Saturated Soil column and its Modeling 14. Treatment of Stabilized leachate by Electrocoagulation: An Investigation of the Effect of operational Parameters 15. Decolourization / Biodegradation of Textile Azo dyes by <i>Bacillus sp. and Pseudomonas</i>
2012-2013	16. Forecasting Air Quality Parameters Using Linear and Nonlinear Models 17. Removal of Water Turbidity by natural coagulants obtained from <i>Prosopis Juliflora and Cactus Opuntia</i> 18. Electro Fenton Removal of Salicylic Acid from aqueous solution in batch and continuous mode 19. Application of Vertical Subsurface Flow Constructed Wetland in the Treatment of Municipal Wastewater 20. Treatment of Stabilized Leachate by Peroxi coagulation Process 21. Removal of Magenta MB from aqueous solution by Fenton and Photo-Fenton Processes
2013-2014	22. Immobilization of Cadmium by Cost- Effective Amendments in a Contaminated Soil 23. Assessment of Gaseous Pollutants and particulate Matter in the Ambient Air from the Heterogeneous Traffic near an Urban Highway 24. Oxidation and Mineralization of Magenta MB by persulfate Based Advanced Oxidation Process 25. Electrolytic Degradation of Reactive Black B in Aqueous Solution Using Two Dimensional and Three Dimensional Electrode Reactor 26. Treatment of Partially Stabilized Landfill Leachate by Fenton Oxidation in Batch and Continuous Modes 27. Experimental Investigation on Landfill Leachate Heavy Metal Attenuation in Biobarrier
2014-2015	28. Removal of organics from bilge water by batch Electrocoagulation process and its optimization 29. Utilization of Distillery wastewater as a no-cost nutritive medium for production of biosurfactants 30. Treatment of grey water by adsorption process using Calcined layered

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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	<p>double hydroxide as an adsorbent</p> <p>31. Removal of Rhodamine B dye from aqueous solution by Electro Fenton process using Iron doped Mesoporous Silica as a Heterogeneous Catalyst</p> <p>32. Treatment of Stabilized Leachate using Sulfate Radical based Advanced Oxidation Process</p> <p>33. Monitoring and Analysis of Indoor Environmental Quality in NIT Trichy</p> <p>34. Treatment of Textile Wastewater by Combined Advanced Oxidation and Biological Process</p>
2015-2016	<p>35. Removal of Copper (II) from Aqueous Water by bio-functional Magnetic Beads</p> <p>36. Stabilized landfill leachate treatment by homogeneous and heterogeneous Fenton and Fenton like Process</p> <p>37. Synthesis and Characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticle coated with humic acid salt for malachite green dye removal from aqueous solution</p> <p>38. Optimization of an integrated electrocoagulation / electro oxidation process using Fe as bipolar electrode for pulp and paper wastewater</p> <p>39. Polyhydroxy Alkanoates (PHA) production from swine effluent using mixed microbial cultures (MMC)</p>

(iv) Other contribution(s)

1. Manuals are developed for Environmental Engineering Laboratory
2. Three new experiments have been added in the Environmental Microbiology and Engineering Laboratory for M.Tech. Environmental Engineering.
3. Instruments purchased through plan fund, TEQIP Phase I, Phase II : 2.5 crores
4. Instruments purchased through DST Project: 8 lakhs

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Modeling of Leachate Migration from Open Dumping Site	DST	2009	2012	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
Ms. S. Kanmani	Investigation of leachate migration and its mitigation using biobarrier: Simulation and Experiments	Supervisor	July 2014
Mr. P. V. Nidheesh	Treatment of Textile Wastewater by	Supervisor	July 2014

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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	Electrolytically Generated Fenton Reagents Using Graphite Electrodes		
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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

<b>Date (s)</b>	<b>Title of Activity</b>	<b>Level of Event (International/ National/ Local)</b>	<b>Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)</b>	<b>Event Organized by</b>	<b>Venue</b>
29.04.2005 to 30.04.2005	Incineration and Solid waste management- NWISWM-2005	National	Participated	Department Civil Engineering, Indian Institute of Technology Madras	IIT Madras
09.05.2005	Water Quality monitoring by Rapid methods	National	Participated	Swan Environmental (P) Ltd, at Hotel Savera	IIT Madras
16.05.2005 to 17.05.2005	Advances in Water Engineering for Sustainable Development- NCAWESD-2005	National	Participated	Department Civil Engineering, Indian Institute of Technology Madras	IIT Madras
25.05.2005 to 26.5.2005	Assessment of current & Futuristic Water quality standards in India	National	Participated	National Environmental Research Institute Nagpur	CLRI, Chennai
17.11.2005 to 19.11.2005	City of Tomorrow	National	Participated	Goethe Institute-Max Muller Bhavan	Chennai
01.02.2007 to 02.02.2007	Finite Element Methods for Engineers	National	Participated	Department of Civil Engineering, NIT Trichy	NIT Trichy
25.06.2007 to 29.06.2007	Hazardous Waste Management	National	Participated	EWRE Division, Department	IIT Madras

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

---

				Civil Engineering	
16.07.2007 to 20.07.2007	Environmental Impact Assessment	National	Participated	EWRE Division, Department Civil Engineering	IIT Madras
05.09.2009 to 10.09.2009	Instructional Design and Delivery System	National	Participated	National Institute of Technical Teachers Training and Research	Chennai
20.04.2010	Open Dumping of Solid Waste & Its Environmental Hazards	National	Participated / Speaker	National Institute of Technical Teachers Training and Research	Chennai
15.12.2010 to 17.12.2010	Forensic Engineering (INDUSFEW)	International	Participated	Department of Civil Engineering, NIT Trichy	NIT Trichy
17.01.2011 to 22.01.2011	Environmental Chemodynamics	National	Participated	Department of Chemical & Civil Engineering, IIT Madras	IIT Madras
09.01.2012 to 12.01.2012	Introduction to Forensic Engineering and failure analysis	National	Participated	Department of Civil Engineering, NIT Trichy and Department of Civil and Environmental Engineering, University of North Carolina at Charlotte,	NIT Trichy
05.10.2012, 06.10.2012	Class Room Management & Communication	Local	Participated	NIT Trichy	Tanjore
22.10.2016	Environmental and Water Resources Engineering	National	Participated / Speaker	Rajiv Gandhi Institute of Technology, Kottayam	Kottayam, Kerala



**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

<b>Title of Activity</b>	<b>Level of Event (International/ National/ Local)</b>	<b>Date (s)</b>	<b>Role</b>	<b>Venue</b>
Recent Advancements in Environmental Engineering	National	19.02.2007 to 23.02.2007	Coordinator	Department of Civil Engineering, NIT Trichy
Groundwater Contamination and Transport Modeling	National	25.10.2013, 26.10.2013	Coordinator	Department of Civil Engineering, NIT Trichy
Cleaner Technologies for Water and Wastewater	National	12.11.2013, 13.11.2013	Coordinator	Department of Civil Engineering, NIT Trichy
ISO 14001:2004	Local	24.02.2014 to 28.02.2014	Coordinator	Department of Civil Engineering, NIT Trichy
Challenges, Emerging Trends and Recent Initiatives in Environmental Engineering	National	29.08.2016 to 03.09.2016	Coordinator	Department of Civil Engineering, NIT Trichy

18. Invited Talks delivered

<b>Topic</b>	<b>Date</b>	<b>Inviting Organization</b>
QUAL2K- A Modeling Framework for Simulating River and Stream Water Quality	February 28, 2006	Department of Civil Engineering, Indian Institute of Technology Madras.
RIAM - an Environmental Impact Assessment Tool	March 21, 2006	Department of Civil Engineering, Indian Institute of Technology Madras, Chennai.
Rapid Impact Assessment Matrix	August 18, 2006	Tamil Nadu Pollution Control Board, Chennai.
Environmental Impact Assessment	December 9, 2006	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli.
RIAM and its Application	March 28, 2007	Tamil Nadu Pollution Control Board, Chennai.
Rapid Impact Assessment Matrix – A new tool for EIA Case study of a Sanitary Landfill	July 18, 2007	Department of Civil Engineering, IIT Madras, Chennai.
Improper dumping of MSW and its impacts on	April 20, 2010	Centre for Environmental Management, NITTTR,

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

environment – Perungudi Case Study		Chennai.
Disposal of Solid Waste and its impacts on environment – Perungudi Case Study	August 10, 2010	Department of Civil Engineering, V. R. S. College of Engineering and Technology, Villupuram.
Advanced Wastewater Treatment: Removal of Nitrogen and Phosphorous From Wastewater	March 11, 2011	Department of Civil Engineering, Kongu Engineering College, Erode
Improper dumping of municipal solid waste and its impacts on environment – A case study	August 23, 2011	The Institution of Engineers (India), Tiruchirappalli Local Centre, BHEL.
Occupational Health Hazards in Industry Operation	March 13, 2012	Tamilnadu Pollution Control Board, Trichy.
Municipal solid waste composting: biological processing	March 28, 2012	Sri Krishna College of Technology, Coimbatore.
Contaminant Transport Modeling	March 23, 2013	Government College of Engineering, Coimbatore.
Stabilized leachate treatment by electrochemical process	February 13, 2015	Central Electro Chemical Research Institute, Karaikudi, India.
Degradation of Dyes by Electro Fenton Process	-	Department of Chemistry, National Institute of Technology, Tiruchirappalli.
Stabilized Leachate Treatment by Electro Chemical Process	November 21, 2016	The Institution of Engineers (India), Tiruchirappalli Local Centre Trichy.
Removal of Organic Pollutant from Textile Wastewater using Fe <sub>3</sub> O <sub>4</sub> Nano particles as a Heterogeneous Electro Fenton Catalyst	June 16, 2016	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli
Models for Leachate Contaminant Movement in Groundwater	October 6, 2016	Department of Civil Engineering, Indian Institute of Technology Madras
Electrochemical Based Advanced Oxidation Process for Wastewater Treatment	October 22, 2016	Rajiv Gandhi Institute of Technology, Kottayam, Kerala
Advanced Wastewater Treatment: Removal of Nitrogen and Phosphorous From Wastewater	November 9, 2016	Department of Civil Engineering, Vellore Institute of Technology

19. Membership of Learned Societies

<b>Type of Membership (Ordinary Member/ Honorary Member / Life Member )</b>	<b>Organization</b>	<b>Membership No. with date</b>
Life Member	Indian Society for Technical Education	LM -55428 / 2008
Life Member	The Institution of Engineers (India)	M1393221 / 2009
Life Member	Indian Society of Geomatics	L-1361

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

---

Life Member	Indian Water Resources Society	LM- 11-7323 / 2011
Life Member	Indian Water Works Association	LM-6926/ 2011
Life Member	Institution of Public Health Engineers, India	LAM-762 / 2011
Life Member	Indian Geotechnical Society	LM 3658 / 2013

20. Academic Foreign Visits

Country	Duration of Visit	Programme
-	-	-

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
<b>International Journals:</b>						
S. Mohan, <b>R. Gandhimathi,</b> and G. Sreelakshmi	Isotherm Studies for Heavy Metal Adsorption on Rice Husk	Asian Journal of Water, Environment and Pollution	5	71-78	2007	-
<b>R. Gandhimathi,</b> S.T. Ramesh and M. Vinoth	The Use of Limestone Powder as a Low Cost, Environmentally Friendly Alternative to Activated Carbon for the Removal of COD from Domestic Wastewater	Indian Journal of Environmental Protection	28	997-1002	2008	-
S. Mohan and <b>R. Gandhimathi</b>	Solid waste characterization and the assessment of the effect of dumping site leachate on ground water quality- A case study.	International Journal of Environment and Waste Management	3	65-77	2009	-
S. Mohan and <b>R. Gandhimathi</b>	Removal of Heavy Metal Ions From Municipal Solid Waste Leachate Using Coal Fly Ash As An Adsorbent	Journal of Hazardous Materials	169	351-359	2009	4.331
P. V. Nidheesh, <b>R. Gandhimathi,</b>	Investigation of Equilibrium and	Journal of International	6	461-470	2011	-

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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S. T. Ramesh and T. S. Anantha Singh	Thermodynamic parameters of Crystal Violet Adsorption onto Bottom ash	Environmental Application & Science				
<b>R. Gandhimathi</b> , S. T. Ramesh, V. Sindhu and P. V. Nidheesh	Single and Tertiary system dye removal from Aqueous solution using Bottom Ash: Kinetic and isotherm studies.	Iranica Journal of Energy and Environment	3	52-62	2012	-
P. V. Nidheesh, <b>R. Gandhimathi</b> , S. T. Ramesh and T. S. Anantha Singh	Adsorption - Desorption Characteristics of Crystal Violet in Bottom Ash Column	Journal of Urban and Environmental Engineering	6	18-29	2012	-
P. V. Nidheesh, <b>R. Gandhimathi</b> , S. T. Ramesh and T. S. Anantha Singh	Kinetic Analysis of Crystal Violet Adsorption on to Bottom Ash	Turkish Journal of Engineering and Environmental Sciences	36	249-262	2012	-
P. V. Nidheesh and <b>R. Gandhimathi</b>	Trends in Electro-Fenton process for Water and Wastewater Treatment: An overview	Desalination	209	1-15	2012	3.96
S. Kanmani and <b>R. Gandhimathi</b>	Assessment of heavy metal contamination in soil due to leachate migration from an open dumping site	Applied Water Science	3	193-205	2013	-
P. V. Nidheesh, <b>R. Gandhimathi</b> , S. T. Ramesh and T. S. Anantha Singh	Modeling of Crystal Violet Adsorption by Bottom Ash Column	Water Environment Research	85	1-8	2013	0.89
<b>R. Gandhimathi</b> , S. T. Ramesh, V.M. Arun and P. V. Nidheesh	Biosorption of Cu (II) and Zn (II) Ions from Aqueous Solution by Water Hyacinth (Eichhornia Crassipes)	International Journal of Environmental Waste Management,	11	365-386	2013	-
P. V. Nidheesh, <b>R. Gandhimathi</b> and S. T. Ramesh	Degradation of dyes from aqueous solution by Fenton processes: a review	Environmental Science and Pollution Research	20	2099-2132	2013	2.757
S. Kanmani and	Investigation of	Applied Water	3	387-399	2013	-

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

---

<b>R. Gandhimathi</b>	physicochemical characteristics and heavy metal distribution profile in groundwater system around the open dumpsite	Science				
<b>R. Gandhimathi</b> , N. Jegan Durai, P. V. Nidheesh, S. T. Ramesh and S. Kanmani	Use of combined coagulation - adsorption process as pretreatment of landfill leachate	Iranian Journal of Environmental Health Science and Engineering	10	1-7	2013	1.072
<b>R. Gandhimathi</b> , S. T. Ramesh, V. Sindhu and P. V. Nidheesh	Bottom ash adsorption of basic dyes from their binary aqueous solutions.	Songklanakarin Journal of Science and Technology	35	339-347	2013	-
B. Shathika Sulthana Begum, <b>R. Gandhimathi</b> , S. T. Ramesh and P.V. Nidheesh	Utilization of textile effluent wastewater treatment plant sludge as brick material	Journal of Material Cycles and Waste Management	15	564-570	2013	0.831
Stephy Jacqueline George, <b>R. Gandhimathi</b> , P. V. Nidheesh and S.T. Ramesh	Electro Fenton Oxidation of Salicylic Acid in Aqueous Solution with graphite electrodes.	Environmental Engineering Science,	30	750-756	2013	1.17
Shilpa Xavier, <b>R. Gandhimathi</b> , P. V. Nidheesh and S.T. Ramesh	Comparison of homogeneous and heterogeneous Fenton processes for the removal of reactive dye magenta MB from aqueous solution	Desalination and water treatment	57	12832-12841	2013	0.85
P. V. Nidheesh and <b>R. Gandhimathi</b>	Removal of Rhodamine B from aqueous solution using graphite-graphite electro-Fenton system	Desalination and Water Treatment	52	1872-1877	2014	0.85
P. V. Nidheesh and <b>R. Gandhimathi</b>	Electrolytic removal of Rhodamine B from aqueous solution by peroxicoagulation process.	Environmental Science and Pollution Research	21	8585-8594	2014	2.757
P. V. Nidheesh, <b>R. Gandhimathi</b> ,	Magnetite as a heterogeneous electro	RSC Advances	4	5698-5708	2014	3.708

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

---

S. Velmathi and N. S. Sanjini	Fenton catalyst for the removal of Rhodamine B from aqueous solution					
Devika Venu, <b>R. Gandhimathi</b> , P.V. Nidheesh and S.T. Ramesh	Treatment of stabilized landfill leachate using peroxicoagulation process.	Separation and Purification Technology	129	64-70	2014	3.065
P. V. Nidheesh and <b>R. Gandhimathi</b>	Effect of solution pH on the performance of three electrolytic advanced oxidation processes for the treatment of textile wastewater and sludge characteristics	RSC Advances	4	27946-27954	2014	3.708
P. V. Nidheesh, <b>R. Gandhimathi</b> and N. S. Sanjini	NaHCO <sub>3</sub> enhanced Rhodamine B removal from aqueous solution by graphite-graphite electro Fenton system	Separation and Purification Technology	132	568-576	2014	3.065
<b>R. Gandhimathi</b> , Albin Babu, P. V. Nidheesh, S. T. Ramesh and T. S. Anantha Singh	Laboratory Study on Leachate Treatment by Electrocoagulation Using Fly Ash and Bottom Ash as Supporting Electrolytes	Journal of Hazardous, Toxic, and Radioactive Waste, ASCE	19		2014	
P. V. Nidheesh and <b>R. Gandhimathi</b>	Comparative removal of Rhodamine B from aqueous solution by electro Fenton and electro Fenton like processes	Clean- Soil, Air, Water	42	779-784	2014	1.838
Stephy Jacqueline George, <b>R. Gandhimathi</b> , P. V. Nidheesh and S.T. Ramesh	Electro Fenton oxidation of salicylic acid from aqueous solution: Batch studies and degradation pathway	Clean- Soil, Air, Water	42	1-11	2014	1.838
P. V. Nidheesh and <b>R. Gandhimathi</b>	Electro Fenton oxidation for the Removal of Rhodamine B from Aqueous Solution in a	Desalination and Water Treatment	55	263-271	2015	1.272

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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	Bubble Column Reactor under Continuous Mode					
P. V. Nidheesh and <b>R. Gandhimathi</b>	Textile Wastewater Treatment by Electro-Fenton Process in Batch and Continuous Modes	Journal of Hazardous, Toxic, and Radioactive Waste, ASCE	19	04014038:1-7	2015	-
S. Kanmani, <b>R. Gandhimathi</b> and Muthukkumaran	Bioclogging in porous media: influence inreduction of hydraulic conductivity and organic contaminants during synthetic leachate permeation	Journal of Environmental health Science & Engineering,	12	126	2014	1.01
J. Krupa, <b>R. Gandhimathi</b> , S. T. Ramesh, P. V. Nidheesh, and T , Singh	"Investigation of Biobarrier for Leachate Containment through Batch and Continuous Flow Studies	Journal of Environmental Engineering, ASCE	142	C4015006:1-8	2015	-
K. Sarath, <b>R. Gandhimathi</b> , S.T. Ramesh and P.V. Nidheesh	Removal of reactive magenta-MB from aqueous solution by persulphate-based advanced oxidation process	Desalination and Water Treatment	57	11872-11878	2015	1.272
Devika Venu, <b>R. Gandhimathi</b> , P.V. Nidheesh and S.T. Ramesh	Effect of Solution pH on Leachate Treatment Mechanism of Peroxicoagulation Process	Journal of Hazardous, Toxic, and Radioactive Waste, ASCE	20	06016001:1-4	2016	-
P. Aswathy, <b>R. Gandhimathi</b> , S. T. Ramesh and P.V. Nidheesh	Removal of organics from bilge water by batch electrocoagulation process	Separation and Purification Technology	159	108-115	2016	3.229
S. Sowmiya, <b>R. Gandhimathi</b> , S. T. Ramesh and P. V. Nidheesh	Granular activated carbon as a particle electrode in three dimensional electrochemical treatment of Reactive Black B from aqueous solution	Environmental Progress & sustainable Energy	35	1616-1622	2016	1.631

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

T. T. Asha, <b>R. Gandhimathi</b> , S. T. Ramesh and P.V. Nidheesh	Treatment of Stabilized Leachate by Ferrous Activated Persulfate Oxidative System	Journal of Hazardous, Toxic, and Radioactive Waste, ASCE	-	04016012: 1-6	2016	-
<b>National Journals:</b>						
<b>R. Gandhimathi</b> , S.T. Ramesh, and E. Arun Praveeth	Adsorptive removal of copper from aqueous solution onto Raw Rice Husk: Kinetics and isotherms	Nature Environment and pollution Technology	4	763-768	2008	-
S.T. Ramesh, S. Mohan, and <b>R. Gandhimathi</b>	Environmental Impact Assessment using Rapid Impact Assessment Matrix (RIAM) for Open dumping site, Chennai, India	Journal of Indian Association of Environmental management	35	149-156	2008	-
<b>R. Gandhimathi</b> , S.T. Ramesh, and V.Subhashinidevi	Anaerobic Co Digestion of Vegetable and Fruit Wastes: Bioreactors Performance	Journal of Institution of Public Health Engineers	2010-11	26-30	2010	-
<b>R. Gandhimathi</b> , S. T. Ramesh, Anubhav Yadu and K. S. Bharathi	Fixed Bed Column Study For Cu (II) Removal From Aqueous Solution Using Water Hyacinth (Eichornia Crassipes) Biomass	Journal of Environmental Science and Engineering	55	283-289	2013	-
<b>R. Gandhimathi</b> , S. T. Ramesh, V. Sindhu and P. V. Nidheesh	Removal Characteristics of Basic Dyes from Aqueous Solution by Fly Ash in Single and Tertiary Systems	Journal of Scientific & Industrial Research	74	267-272	2014	0.5

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Confer ence Theme	Venue	Year
<b>International Conferences:</b>						
<b>R. Gandhimathi</b> S. Mohan, and G. Sreelakshmi	Impacts on ground water quality due to open dumping	International Conference on Environmental	71-76	-	JNTU, Hyderabad	2005



**National Institute of Technology, Tiruchirappalli:**  
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	of municipal solid waste	Management				
<b>R. Gandhimathi</b> and S. Mohan	Assessment and analysis of heavy metal in municipal solid waste dumping site – A case study	International Congress of Chemistry and Environment	407-410	-	(ICCE-2005) Indore	2005
P. V. Nidheesh and <b>R. Gandhimathi</b>	Fixed Bed Column Study for the Removal of Crystal Violet from Aqueous Solution by Bottom Ash	International Conference on Sustainable Water Resource Management and Treatment Technologies	670-680	-	NEERI, Nagpur	2011
S. Kanmani and <b>R. Gandhimathi</b>	The Assessment of the Effect of Dumping Site leachate on Groundwater Quality	International Conference on Sustainable Water Resource Management and Treatment Technologies	837-843	-	NEERI, Nagpur	2011
P. V. Nidheesh, <b>R. Gandhimathi</b> and S. T. Ramesh	Use of Mass Transfer Models for Prediction of Crystal Violet Adsorption Efficiency of Bottom Ash In Fixed-Bed System	International Conference on Mathematical Modelling and Applications to Industrial Problems	39	-	NIT Calicut, Kozhikode	2011
P. V. Nidheesh and <b>R. Gandhimathi</b>	Removal of Rhodamine B from Aqueous Solution by Electro-Fenton Process”	2 <sup>nd</sup> International Conference on Advanced Oxidation Processes	221	-	School of Environmental Studies, M.G. University Kottayam	2012
<b>R. Gandhimathi</b>	Stabilized leachate treatment by electrochemical process	Indo-French Workshop on Sustainable Water Purification Technologies,	17	-	Central Electro Chemical Research Institute, Karaikudi, India	2015
P.V. Nidheesh, Shilpa Xavier and <b>R. Gandhimathi</b>	Fenton catalytic activity of magnetite in the presence of UV light and	Indo-French Workshop on Sustainable Water Purification	19	-	Central Electro Chemical Research Institute, Karaikudi, India	2015

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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	electricity for the removal of dyes from aqueous solution	Technologies				
P. Aswathy and <b>R. Gandhimathi</b>	Removal of organics from bilge water using batch electrocoagulation and its optimization	Indo-French Workshop on Sustainable Water Purification Technologies	28	-	Central Electro Chemical Research Institute, Karaikudi, India	2015
T. T. Asha and <b>R. Gandhimathi</b>	Treatment of stabilized leachate by a sulpahte radical based advanced oxidation process	Indo-French Workshop on Sustainable Water Purification Technologies	29	-	Central Electro Chemical Research Institute, Karaikudi, India	2015
P. S. Roshini and <b>R. Gandhimathi</b>	Treatment of Textile wastewater by combined advanced oxidation and biological process	Indo-French Workshop on Sustainable Water Purification Technologies	30	-	Central Electro Chemical Research Institute, Karaikudi, India,	2015
R. Jinisha, <b>R. Gandhimathi</b> and S. Velmathi	Fe-SBA-15 as a heterogeneous catalyst for the removal of Rhodamine B using electro Fenton process	Indo-French Workshop on Sustainable Water Purification Technologies	31	-	Central Electro Chemical Research Institute, Karaikudi, India,	2015
<b>National Conferences:</b>						
Preshobh and <b>R. Gandhimathi</b>	Removal of Malachite Green Dye Using Liquid Emulsion Membrane	Student Symposium on Research in Civil Engineering	7-8	-	Institute of Technology Madras, Chennai	2009
P. V. Nidheesh, <b>R. Gandhimathi</b> and S. T. Ramesh	Use of Mass transfer model for prediction of crystal violet adsorption efficiency of bottom ash in fixed bed system	National Conference on Biological Wastewater Treatment Towards Green Environment	35-36	-	Department of Chemical Engineering, NIT Calicut, Kozhikode	2011
P. V. Nidheesh and <b>R. Gandhimathi</b>	Reichenberg Analysis of Crystal Violet Adsorption onto Bottom Ash	National Conference on Emerging Technologies	-	-	Anna Univeristy of Technology, Tirunelveli	2011

National Institute of Technology, Tiruchirappalli:  
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P. V. Nidheesh, <b>R. Gandhimathi</b> S. T. Ramesh and T. S. Anatha Singh	Adsorption of Methylene Blue by Bottom Ash-Kinetics and Equilibrium Studies	National Conference on Environmental Challenges Towards Sustainability	74	-	Government College of Technology, Coimbatore	2011
P. V. Nidheesh and <b>R. Gandhimathi</b>	Review, Analysis and Validation on pH dependence of Fenton Processes	National Seminar on Electrochemical and Chemical Technology	33	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013
Devika Venu and <b>R. Gandhimathi</b>	Removal of COD from landfill leachate by peroxicoagulation process	National Seminar on Electrochemical and Chemical Technology)	54	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013
Stephy Jacqueline George and <b>R. Gandhimathi</b>	Removal of salicylic acid from aqueous solution by electro Fenton process	National Seminar on Electrochemical and Chemical Technology	19	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013
Shilpa Xavier and <b>R. Gandhimathi</b>	Removal of Magenta MB by Fenton process	National Seminar on Electrochemical and Chemical Technology	25	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013
C. Dwithiya and <b>R. Gandhimathi</b>	Municipal Wastewater Treatment by Subsurface Vertical Flow Constructed Wetland	National Seminar on Electrochemical and Chemical Technology	58	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013
C. Mithun and <b>R. Gandhimathi</b>	Use of Prosopis Juliflora Seed as a Natural Coagulant in Treatment of Turbid Water	National Seminar on Electrochemical and Chemical Technology	36	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013
Abhishek Anand and <b>R. Gandhimathi</b>	Forecasting Air Quality Parameters Using Artificial Neural Network Modelling	National Seminar on Electrochemical and Chemical Technology	29	-	Central Electrochemical Research Institute (CECRI), Karaikudi	2013

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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Sree Lekha S Kumar and <b>R. Gandhimathi</b>	Assessment of air quality at NIT campus using bio monitors by air pollution tolerance index (APTI) approach	1 <sup>st</sup> National level conference on energy and environment	37	-	Department of chemical Engineering, A. C. Tech., Anna University, India.	2014
P. V. Nidheesh and <b>R. Gandhimathi</b>	Graphite-Graphite Electro Fenton Process for Dye Removal: Advantages, Implementation Problems and Remedial Solution	National Seminar on Electrochemical and Chemical Technology	145-148	-	Government College of Engineering Kannur	2014
V. Uma and <b>R. Gandhimathi</b>	Polyhydroxyalkanoates (PHA) Production from Oily Bilge Water Using Mixed Culture in Sequencing Batch Reactor (SBR)	National Conference on Energy and Environment	-	-	IIT Madras and CODDISSIA Coimbatore	2016
Sree Lekha S Kumar, <b>R. Gandhimathi</b> and S.V.Niveditha	Assessment of Gaseous Pollutants and Particulate Matter In The Ambient Air From The Heterogeneous Traffic Near an Urban Highway	National Conference on Energy and Environment	-	-	IIT Madras and CODDISSIA Coimbatore	2016
K.S. Hasim, B. Archa, and <b>R. Gandhimathi</b>	Stabilized landfill leachate treatment by Heterogeneous Fenton and Fenton-like process	National Conference on Energy and Environment	-	-	IIT Madras and CODDISSIA Coimbatore	2016
Kirti Tamta, A. S Ashwini, and <b>R. Gandhimathi</b>	Optimization of an Integrated Electrocoagulation /Electrooxidation Using Fe as Bipolar Electrode for Pulp and Paper Wastewater	National Conference on Energy and Environment	-	-	IIT Madras and CODDISSIA Coimbatore	2016

National Institute of Technology, Tiruchirappalli:  
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(C) Books & Monographs

<b>Author(s)</b>	<b>Title of Book/Monograph</b>	<b>Name of Publishers</b>	<b>Year of Publication</b>	<b>ISSN/ISBN Number</b>
-	-	-	-	-