

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

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## Curriculum Vitae

### Brief Profile:

- *Dr. V.M Biju did his Ph.D. in chemistry from NIIST, CSIR, Trivandrum during 2001-2005 after completing his Post Graduation in Analytical Chemistry from Bishop Moore college, Mavelikara under Kerala University.*
- *Currently he is Assistant Professor in Department of Chemistry at National Institute of Technology(NIT), Tiruchirappalli, TamilNadu heading Bio & Electroanalytical Laboratory from 7<sup>th</sup> April 2006 till date.*
- He was awarded *senior research fellowship* by CSIR in the year 2002.
- *Contributed an article to Encyclopedia of Analytical Science as co-author in Elsevier publications, Oxford, U.K in the year 2005.*
- He has published **~40 Research papers** including **3 Review articles**.
- *Has more than 550 citations for the papers published since 2016.*
- Visited **Pohang University of Science & Technology (POSTEC), South Korea** as a **“Visiting Researcher”** for one month under Technical Education for Quality Improvement Programme (TEQIP) for abroad training.
- **Presented research papers as oral/poster in National/International conferences in India and other countries like South Korea, Singapore and Malaysia.**
- He has completed, 10.5 lakhs worth Grant-in-Aid Project (GAP) from CSIR, New Delhi (2008 – 2011) entitled **“Synthesis and Characterization of novel functionalized solid sorbents for online flow injection preconcentrative separation and determination of inorganics by Atomic/Molecular spectrometric techniques”**.
- **Guided 4 Ph.D. students and 7 are under his supervision. Also, 26 M.Sc. students completed their project work.**
- **Delivered invited lectures in certain elite central and state government insitutions/ universities/colleges.**
- **Reviewed about several research papers submitted to journals published by Taylor & Francis, NISCAIR, Elsevier, etc.**
- Life member in *International Society for Electroanalytical Chemistry (ISEAC)*, BARC, Mumbai.
- **Current research interests are: Flow injection analysis using novel Solid phase extractants; Metal ion, molecular and metal–chelate imprinted polymers; Electrochemical sensors and Luminescence technology.**

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

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1. Name: **Dr. V.M. BIJU**
2. Designation: **Assistant Professor**
3. Office Address: **Department of Chemistry, NIT,  
Tiruchirappalli-620 015,  
Tamil Nadu**



4. Telephone (Direct) (Optional):  
Telephone : **0431-2503638** Extn (Optional):**3638**  
Mobile (Optional):**+91-9443843076**
5. Email (Primary):**vmbiju@nitt.edu** Email(Secondary): **bijuvm12@gmail.com**
6. Field(s) of Specialization: **Analytical Chemistry**

7. Employment Profile:

Job Title	Employer	From	To
Junior Project Fellow (JPF)	NIIST ( formerly Regional Research Laboratory), CSIR, Trivandrum, Kerala	02-12-1998	02-12-2001
Senior Research Fellow (SRF)	NIIST, CSIR, Trivandrum, Kerala	02-01-2002	Submitted
Project Associate (Project Assistant Grade – V)	NIIST, CSIR, Trivandrum, Kerala	31-08-2005	05-04-2006
Assistant Professor (Grade Pay 8000)	National Insitute of Technology (NIT), Tiruchirappalli, Tamil Nadu	07-04-2006	Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
<b>Ph.D.</b>	NIIST(CSIR), Trivandrum [under Kerala University]	2006	Awarded on 11-01-2006	Chemistry
<b>B.Ed.</b>	Kerala University	1998	Third	Physical Science
<b>M.Sc. degree</b>	Kerala University	1997	First	Analytical Chemistry
<b>B.Sc. degree</b>	Kerala University	1994	First	Chemistry
<b>A.I.S.S.C.E</b>	C.B.S.E	1991	First	Maths, Physics, Chemistry & Biology
<b>A.I.S.S.E</b>	C.B.S.E	1989	Second	All subjects

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

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
<b>I B.Tech. subject coordinator (Theory &amp; Practicals)</b>	<b>Department</b>	2014	2015
<b>I B.Tech. subject coordinator (Practicals)</b>	<b>Department</b>	<b>2015</b>	<b>2016</b>
<b>M.Sc.(Chemistry) faculty advisor</b>	<b>Department</b>	<b>2015</b>	<b>2016</b>
<b>Department Project Evaluation Committee(DPEC) member</b>	<b>Department</b>	<b>2013</b>	<b>2014</b>
<b>Department Project Evaluation Committee(DPEC) member</b>	<b>Department</b>	<b>2015</b>	<b>2016</b>
<b>NSS programme officer</b>	<b>Institution</b>	<b>2007</b>	<b>2009</b>
<b>Sports convener</b>	<b>Institution</b>	<b>2009</b>	<b>2010</b>
<b>NCC care taker</b>	<b>Institution</b>	<b>January, 2016</b>	<b>Till date</b>

10. Academic/Administrative Responsibilities outside the University: **Nil.**

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
<b>2000</b>	<b>Best Oral presentation</b>	<b>Sri Venkateshwara University, Tirupati(for National Seminar)</b>

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
<b>2002</b>	<b>Senior Research Fellowship</b>	<b>CSIR, MHRD, New Delhi</b>	<b>January, 2002</b>	<b>December, 2005</b>

13. Details of Academic Work

(i) Curriculum Development

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

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- a) **Developed an Bio and Electroanalytical laboratory in the Department of Chemistry.**
- b) **Developed new experiments (also demonstration experiments) in the M.Sc.(Chemistry) laboratory like Milk analysis, oil analysis, butter analysis blood analysis etc.**

(ii) Courses taught at Postgraduate and Undergraduate levels:

<b>Sl. No.</b>	<b>Course (code)</b>	<b>Subject</b>	<b>Date</b>
1.	M.Sc. ( MAC 104)	Analytical Chemistry	24-11-2006
2.	B.Tech (CH101)	Chemistry - I	24-11-2006
3.	M.Sc. ( MAC 104)	Analytical Chemistry	07-05-2007
4.	B.Tech (CH 102)	Chemistry - II	24-09-2007
5.	M.Sc. ( CH 607)	Analytical Chemistry	27-11-2007
6.	B.Tech (CH101)	Chemistry - I	29-11-2007
7.	M.Sc. (CH 616)	Medicinal Chemistry	2007
7.	B.Tech (CH102)	Chemistry - II	04-08-2008
8.	M.Sc. (CH 607)	Fundamentals of Analytical Chemistry	26-11-2009
9.	B.Tech (CH101)	Chemistry - I	03-12-2009
10.	B.Tech (CC 101)	Energy and Environmental Engg.	04-12-2009
11.	M.Sc. (CH 607)	Instrumental Methods of Chemical Analysis	From 2009 to till date
12.	B.Tech (CH101& CH102)	Chemistry – I & Chemistry – II	From 2009 to 2014 for all Engg. branches
13.	B.Tech (CHI R11& CHI R12)	Chemistry – I & Chemistry – II	From 2015 to till date for all Engg. branches

(iii) Projects guided at Postgraduate level:

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

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1. M.P. Shanmuga Priya in the project entitled **"Functionalization of "Upper Rim" of Calix[4]arenes by Baylis-Hillman Reaction"** (2007).
2. R. Kalavani in the project entitled **"Genetic Engineering of the metal ion binding site in the Dinuclear Cu<sub>A</sub> Centre of Cytochrome C oxidase"** (2007).
3. R. Gayathri in the project entitled **"Comparative corrosion study on different grades on Stainless steel as per ASTM methods and corrosion behaviour of different grades of stainless steel in different combinations of food acids"** (2008).
4. K. Indira in the project entitled **"Synthesis and characterization of condensed phenolic resin for the quantification of transition metals"** (2008).
5. P. Kamachiyappan in the project entitled **"Synthesis and characterization of Co-ordination polymer for preconcentration of trace metals"** (2009).
6. G. Sundarapandiyan in the project entitled **"Synthesis and characterization of 8-Hydroxy-5-Azo Quinoline phenol formaldehyde resin and its Cu(II) complex"** (2009).
7. S. Priyadarshini in the project entitled **"Solid phase extraction of Mn(II), Co(II), Cu(II) & Cd(II) using 5,7-Dichloroquinoline-8-ol modified naphthalene"** (2010).
8. V. Ramkumar in the project entitled **"FAAS determination of Cu(II), Co(II), Mn(II) and Cd(II) using preconcentration of Polyethylene glycol modified alumina"** (2010).
9. R. Ramesh kumar in the project entitled **"Development of H<sub>2</sub>O<sub>2</sub> sensor using Prussian Blue modified electrode"** (2011).
10. P. Chitra in the project entitled **"FAAS determination of Cd(II) using preconcentration of dithizone modified naphthalene"**(2011).
11. B. Vinayagam in the project entitled **"Fluorescence determination of Europium in high purity Yttrium and Gadolinium oxide."**(2011).
12. R.S. Aparna in the project entitled **"Development of Hydrogel based ion imprinted polymer (IIP) for Cadmium ion"**(2012).
13. Rambabu Gutru in the project entitled **"Sensitive detection of L-Tryptophan Using CoMnHCF-Graphene oxide modified Glassy carbon electrode"**(2012).
14. R. Devi in the project entitled **"Solid phase extraction preconcentration of Mn(II), Cu(II) & Cd(II) using 5,7-Dibromo Quiloline-8-ol modified Napthalene"**(2012).

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

---

15. K. Sindhuja in the project entitled "**Copper Hexacyanoferrate (CuHCF) Modified Graphite Wax Electrode towards Hydroxylamine Detection**" (2013).
16. M. Silambarasan in the project entitled "**Synthesis and characterization of Phenol-Formaldehyde resin and Preconcentration of copper ions from real samples using functionalized sorbents**" (2014).
17. R. Vinothavarthini in the project entitled "**Detection of hydrazine using MWCNT-Poly(Methylene Blue) modified platinum electrode**" (2014).
18. S. Jambu in the project entitled "**Molecularly Imprinted polymer (MIP) based electrochemical sensor for salbutamol**" (2014).
19. R. Dheepika in the project entitled "**Molecularly Imprinted polymer (MIP) based electrochemical sensor for Dopamine**" (2015).
20. P. Giridharan in the project entitled "**Ionic liquid extraction of Zinc (II) ions from natural samples using synthesised room temperature ionic liquid**" (2015).
21. P. Giridharan in the project entitled "**Ionic liquid extraction of Zinc (II) ions from natural samples using synthesised room temperature ionic liquid**" (2015).
22. R. Sakthivel in the project entitled "**Cloud point extraction of Chromium (III) ions from Environmental samples**" (2015).
23. P.S. Sreejith in the project entitled "**Synthesis & Characterization of Novel Phenol-Formaldehyde resin for the preconcentration of Cadmium ions and its determination using FAAS**" (2016).
24. P. Febina in the project entitled "**Synthesis & Application of 1-aroysl-3-phenyl thioureas for extraction of Cadmium ions using spectroscopic studies**" (2016).
25. S. Shalini in the project entitled "**Synthesis & Characterization of Acyl/Aroyl thiourea modified PAMAM dendrimers and as heavy metal ion extractant**" (2016).
26. M.S. Suryamol in the project entitled "**Synthesis of RTIL, N-methyl-N,N-trioctyl-1-ammonium-5.7-diiodoquinolin-8-olate followed by cloud point extraction of Cr(III) ions using synthesized ionic liquid**" (2016).

(iv) Other contribution(s): **Please refer my CV as an attachment.**

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration	Status
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National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

		From	To	Ongoing/ Completed
<b>“Synthesis and Characterization of novel functionalized solid sorbents for online flow injection preconcentrative separation and determination of inorganics by Atomic/Molecular spectrometric techniques”</b>	<b>Council for Science and Industrial Research (CSIR), New Delhi</b>	<b>2008</b>	<b>2011</b>	<b>Completed.</b>

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
<b>E. Linga Reddy (404909002)</b>	<b>Decomposition of hydrogen sulfide to hydrogen and sulphur assisted by non-thermal plasma dielectric barrier discharge reactor</b>	<b>Research Co-Supervisor</b>	<b>2012</b>
<b>D. Mannivannan (404108053)</b>	<b>Preconcentration of trace heavy metal ions from real samples using functionalized sorbents</b>	<b>Research Supervisor</b>	<b>2013</b>
<b>Vinu Mohan A.M (404110003)</b>	<b>Design and development of electrochemical Biosensors using modified electrodes</b>	<b>Research Supervisor</b>	<b>2014</b>
<b>D. Karunanithi (404907001)</b>	<b>Method development and validation of melatonin and sialic acid in cow, human and marketed milk products</b>	<b>Research Supervisor</b>	<b>2015</b>
<b>Aswini K.K. (404111001)</b>	<b>Design &amp; Development of Electrochemical Sensors using Molecularly Imprinted Polymers</b>	<b>Research Supervisor</b>	<b>2016</b>

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

---

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
March 27, 2008	<b>Analytical chemistry: Vision 2020</b>	National	Paper presenter (oral)	IICT, CSIR, Hyderabad	Hyderabad, Telungana
June 28 – July 3, 2009,	<b>ICMAT- 2009</b>	International	Paper presenter (Poster)	<b>Materials Research Society (MRS) in association with National University of Singapore (NUS)</b>	Suntec Singapore Convention & Exhibition Centre, Singapore
August 26-28, 2009.	<b>Non thermal plasma assisted decomposition of hydrogen sulfide into hydrogen and sulfur</b>	International	Paper presenter (Oral)	<b>World Hydrogen Technologies Convention (WHTC)</b>	New Delhi
March 08-10, 2010.	<b>NCRTC-2010</b>	National	Paper presenter (oral)	<b>NITK, Surathkal</b>	Surathkal, Karnataka.
December 02-03, 2010,	<b>National conference on current trends in Chemistry</b>	National	Paper presenter (oral)	<b>Bharathiar University</b>	Coimbatore.
January 10-13, 2010.	<b>MATCON-2010</b>	International	Paper presenter (Poster)	<b>CUSAT</b>	Cochin
August	<b>National Conference on</b>	National	Paper presenter	<b>University of Madras</b>	Chennai



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

25-27, 2011.	<b>Nano Science and NanoTechnology (NCNN-2011)</b>		(oral)		
December 07-10, 2011	<b>ISEAC - WS-2011(Discussion meet)</b>	International	Paper presenter (Poster)	<b>BARC, Mumbai</b>	Goa
May 04-05, 2012,	<b>International conference on Food &amp; Nutrition Technology for Public health care,</b>	International	Paper presenter (Poster)	<b>Jawaharlal Nehru University</b>	New Delhi.
February 14-15, 2013.	<b>RASS 2013</b>	National	Paper presenter (oral)	<b>Gandhigram Rural Institute, Gandhigram</b>	Dindigul
January 16-20, 2013	<b>fifth ISEAC Triennial International Conference on Advances and Recent Trends in Electrochemistry</b>	International	Paper presenter (Poster)	<b>International Society of Electro-analytical Chemistry</b>	Hyderabad
January 17-18, 2014	<b>National Seminar on Current Trends in Chemistry</b>	National	Paper presenter (oral)	<b>CUSAT</b>	Kochi
December 14-15, 2015.	<b>International Conference on Ceramic &amp; Advanced Materials for Energy and Environment,</b>	International	Paper presenter (Poster)	<b>Christ University</b>	Bangalore

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
<b>International Conference on</b>	International	4-6, February,	Member of Organizing	NIT, Trichy

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

<b>Nanomaterial &amp; its Applications (ICNA-2007)</b>		2007	committee	
<b>Training programme for National Eligibility Test (NET) for CSIR-UGC exam</b>	National	26 - 27, April 2007	Convenor	NIT, Trichy
<b>National Seminar on Sensor &amp; its Applications (NSSA-2007)</b>	National	7 - 8, December 2007.	Organizing Secretary	NIT, Trichy
<b>Workshop on Electrochemistry &amp; corrosion"</b>	National	3 <sup>rd</sup> September, 2008.	Convenor	NIT, Trichy
<b>National Level Students' Symposium, HORIZON-2008 under the theme "Recent Trends in Analytical Chemistry"</b>	National	3 - 4, October 2008.	Convenor	NIT, Trichy
<b>Short term course on CSIR/UGC-JRF Exam in Chemical Sciences</b>	National	30 <sup>th</sup> August 2012 to 03 <sup>rd</sup> September 2012	Convenor	NIT, Trichy
<b>Workshop on Applications of Spectroscopy in Inorganic, Organic &amp; Physical chemistry (WASIOP)"</b>	National	29-30, March 2013	Convenor	NIT, Trichy
<b>Short term course on Innovative Methods in Chemical Sciences</b>	National	05-09, May 2014	Convenor	NIT, Trichy

18. Invited Talks delivered:

- ✧ Inaugurated Chemistry association for the Post Graduate Department of Chemistry, Bishop Moore College, Mavelikara, Kerala on 12<sup>th</sup> July 2006 and given an invited lecture on **"LANTHANIDES AND THEIR APPLICATIONS"**

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

---

- ✧ An invited talk was delivered for the topic **Analytical Chemistry** at NIT, Tiruchirappalli, India held on 26 - 27, April 2007 on **“Training programme for National Eligibility Test (NET)”**.
- ✧ An invited talk was delivered at Shriram Institute for Industrial Research, Bangalore on 24<sup>th</sup> January 2008 on **“RECENT DEVELOPMENTS IN ANALYTICAL RESEARCH”**
- ✧ An invited talk was delivered at National Institute of Technology (NIT), Tiruchirappalli on 27<sup>th</sup> September 2008 on **“RECENT TECHNIQUES IN ANALYTICAL RESEARCH AND DEVELOPMENT”** in an interaction programme of Faculty and PG students of NITT & NITK about **“Recent Research Trends in chemistry”**
- ✧ An invited talk was delivered at Mallappally Institute for Academic Excellence, Mallappally, Kerala on 3<sup>th</sup> January 2009 on **“APPLICATIONS OF COORDINATION COMPLEXES”** under the Educational wing of Nuture India Society.
- ✧ An invited talk was delivered at Govt. Engineering College, Wayanad from 23-25, February, 2012 on the topic **“CORROSION ENGINEERING”** under Visiting Faculty Scheme (VFS) constituted by AICTE.
- ✧ An invited talk was delivered at **“Workshop on Modern Analytical Techniques”** in National College (Autonomous), Tiruchirappalli on 15<sup>th</sup> March, 2013 on the topic **“Application of High Pressure Liquid Chromatography-Instrumentation and applications”**.
- ✧ An invited talk was delivered at Govt. College, Kattappana, Kerala. from 21-22, November, 2013 on the topic **“FLOW INJECTION ANALYSIS - challenges and opportunities”** constituted by UGC.
- ✧ An invited talk was delivered at Govt. College, Kattappana, Kerala from 28<sup>th</sup>, November, 2014 on the topic **“Design and Development of Electrochemical sensors using Gold nanoparticles and Graphene modified glassy carbon electrodes”** in a National Seminar on **“NEW MATERIALS IN CHEMISTRY”** constituted by UGC.
- ✧ An invited talk was delivered at Govt. Engineering College, Wayanad from 18-20, February, 2015 on the topic **“CORROSION ENGINEERING”** under Visiting Faculty Scheme (VFS) constituted by AICTE.

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

---

- ✧ An invited talk was delivered at Department of Chemistry, University College, Thiruvananthapuram, Kerala from 2-3, March 2015 on the topic **"ATOMIC ABSORPTION SPECTROSCOPY & ITS APPLICATIONS"** in a National Seminar on **"NEW FRONTIERS IN CHEMISTRY"** sponsored by Directorate of Collegiate Education Government of Kerala.
  
- ✧ An invited talk was delivered at Department of Chemistry, Shanmuga Industries Arts & Science College, Tiruvannamalai, on 6, October 2015 on the topic **"GREEN CHEMISTRY & ITS APPLICATIONS IN DAY-TO-DAY LIFE"** in a State level Seminar on **"RECENT TRENDS IN ANALYTICAL CHEMISTRY"**.
  
- ✧ An invited talk was delivered at Department of Chemistry, Jamal Mohammed College, Trichy, at 14 , October 2015 on the topic **"ATOMIC ABSORPTION SPECTROSCOPY & ITS APPLICATIONS IN ANALYTICAL CHEMISTRY"** in a Special Lecture programme.
  
- ✧ An invited talk was delivered at PG & Research Department of Chemistry, Mar Ivanios college (Autonomous), Thiruvananthapuram on 10, March 2016 on the topic **"ATOMIC & MOLECULAR SPECTROSCOPIES AND ITS APPLICATIONS"** in a **"NATIONAL LEVEL SEMINAR ON ADVANCED ANALYTICAL TECHNIQUES"** (NSAAT 2016) sponsored by UGC.
  
- ✧ An invited talk was delivered at Post Graduate Department of Polymer Chemistry, Govt. College, Attingal, Kerala from 24-26, November, 2016 on the topic **"Solid Phase Extraction-Ion Imprinted polymers"** in a National Seminar on **"MODERN TRENDS IN CHEMISTRY AND POLYMER CHEMISTRY"** sponsored by Directorate of Collegiate Education, Kerala.

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life member	<b>Indian society for Electroanalytical Chemistry (ISEAC), BARC, Mumbai, India</b>	

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

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20. Academic Foreign Visits

Country	Duration of Visit	Programme
<b>South Korea</b>	11-06-2007 to 11-07-2007	<b>Visited Pohang University of Science &amp; Technology (POSTEC), San 31 Hyoja-Dong, Nam-Gu, Pohang, Kyungbuk, 790-784, South Korea as a “Visiting Researcher” from 11-06-2007 to 11-07-2007 under Technical Education for Quality Improvement Programme (TEQIP) for abroad training.</b>

21. Publications

(A) Refereed Research Journals:

*Reviews*

1. Trace determination of Lanthanides in Metallurgical, Environmental and Geological samples, T. Prasada Rao and **V.M. Biju**, *Critical Reviews in Analytical Chemistry*, 30 (2000) 179.
2. Ultra trace analysis of individual Rare earth elements in natural water samples, T. Prasada Rao and **V.M. Biju**, *Reviews in Analytical Chemistry*, 21 (2002) 233.
3. Overview of flow injection analysis of inorganics in India, T. Prasada Rao, **V.M. Biju** and J. Mary Gladis, *Pollution Research*, 22 (2003) 559.

*Research Papers*

4. Luminescence determination of Europium in high purity Yttrium and Gadolinium oxides, **V.M. Biju**, M.L.P. Reddy and T. Prasada Rao & Geeta Kannan, A.K. Mishra and N. Balasubramanian, *Analytical Letters*, 33 (2000) 2271.
5. Spectrofluorimetric determination of ultra trace amounts of Lutetium in Lanthanum, Praseodymium and Dysprosium oxides, **V.M. Biju**, N.M Sita and T. Prasada Rao, *Analytical Letters*, 34 (2001) 211.
6. Spectrofluorimetric determination of Erbium in Sea water with 5,7-diiodo oxine and Rhodamine 6G, **V.M. Biju** and T. Prasada Rao, *Analytical Sciences*, 17 (2001) 1343.
7. Spectrophotometric determination of Zinc in soils and sediments with 5,7-diiodo-8-hydroxy quinoline and Rhodamine 6G, Sajitha Nair, **V.M. Biju**, B. Vijayalakshmy and T. Prasada Rao, *Chemia Analit.*, 46 (2001) 589.

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

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8. Selective Spectrophotometric determination of Cerium (IV), B. Vijayalakshmy; **V.M. Biju** and T. Prasada Rao, *Indian Journal of Chemistry, Section A*, 40A (2001) 1365.
9. On-line solid phase extraction of metal 5,7-dichloroquinoline-8-ol complex onto C<sub>18</sub> bonded silica gel and Flame AAS determination of copper in sea water samples; J. Mary Gladis, **V.M. Biju** and T. Prasada Rao, *Atomic Spectroscopy*, 23 (2002) 143.
10. Ion imprinted polymer (IIP) particles : Synthesis, Characterization and dysprosium ion uptake properties suitable for analytical applications, **V.M. Biju**, J. Mary Gladis and T. Prasada Rao, *Anal. Chim. Acta*, 478 (2003) 43.
11. Effect of  $\gamma$  - irradiation of ion imprinted polymer (IIP) particles for the preconcentrative separation of dysprosium from other selected lanthanides, **V.M. Biju**, J. Mary Gladis and T. Prasada Rao, *Talanta*, 60 (2003) 747.
12. Spectrophotometric determination of Yttrium in Y-Al alloys with 5,7-diiodoquinoline-8-ol and Rhodamine 6G, B. Vijayalakshmy, **V.M. Biju** and T. Prasada Rao, *Indian J. Chem. Tech.*, 10 (2003) 466-469.
13. On-line solid phase extraction preconcentration of ultra trace amounts of zinc in fractionated soil samples for the determination by flow injection flameAAS, C.R. Preetha, **V.M. Biju** and T. Prasada Rao, *Atomic Spectroscopy*, 24 (2003) 118-124.
14. Simultaneous preconcentration of Cu, Cd and Pb from soil samples by soil samples by solid phase extraction and their determination by AAS, P. Gopikrishna, K.S. Rao, **V.M. Biju**, T. Prasada Rao and G.R.K. Naidu, *Chemia. Analit. (Warsaw)*, 49 (2004) 383-393.
15. On-line solid phase extraction preconcentration of Ultra trace amounts of cobalt and nickel in soil and human hair samples for determination by flow injection flame AAS, A.M. Starvin, **V.M. Biju** and T. Prasada Rao, *Atomic Spectrosc.*, 25 (2004) 238-244.
16. Synthesis, characterization and analytical applications of erbium(III) ion imprinted polymer particles prepared via  $\gamma$ -irradiation with different functional and crosslinking monomers, R. Kala, **V.M. Biju** and T. Prasada Rao, *Anal. Chim. Acta*, 549 (2005) 51-58.
17. FAAS Determination of Selected Rare Earth Elements Coupled with Multielement Solid Phase Extractive Preconcentration, **V.M. Biju** and T. Prasada Rao, *Chemia. Analit. (Warsaw)* 50 (2005) 935-944.
18. Preconcentration of Cu (II) from seawater using a novel and stable Phenol-Formaldehyde resin, D. Manivannan, Maria Starvin and **V. M. Biju**, *Water Science and Technology*, 61 (2010) 1853-1863.

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

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19. Determination of toxic heavy metals in sea water by FAAS after preconcentration with a novel chelating resin, D.Manivannan and **V.M.Biju**, *Water Science and Technology*, 64 (2011) 803-808.
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(B) \_Conferences/Workshops/Symposia Proceedings: Nil

(C) Books & Monographs: Nil