

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

Curriculum Vitae



Dr. V.M. Biju joined the Department of Chemistry, NIT Tiruchirappalli as an Assistant Professor on 07-04-2006 and is currently working as an Associate Professor and also holds the additional responsibility of Associate Dean (Faculty Welfare in CPDA) at NIT Tiruchirappalli. He acquired his Ph.D. degree from CSIR- National Institute for Interdisciplinary Science & Technology (NIIST), India under Kerala University from the guidance of Dr. T. Prasad Rao. Afterwards, he worked as a Research Associate in NIIST (2005-2006). His fields of interest include: Electrochemical sensors, Ionic liquids, Ion/molecular imprinting Technology, Solid-phase extraction and Synthesis of novel sorbents for environmentally hazardous materials.

1. Name: **Dr. V. M. BIJU**
2. Designation: Associate Professor
3. Office Address: Associate Professor,
Department of Chemistry,
NIT Tiruchirappalli-620 015
4. Telephone (Direct) (Optional):
Telephone : +91-431-2503638
Extn (Optional):
Mobile (Optional): +91-9443843076
5. Email (Primary): vmbiju@nitt.edu Email (Secondary): bijuvm12@gmail.com
6. Field(s) of Specialization: Analytical Chemistry

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

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT Tiruchirappalli	March 2018	Till date
Assistant Professor	NIT Tiruchirappalli	April 2006	March 2018
Project Associate	NIIST, CSIR, Thiruvananthapuram	August 2005	April 2006

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

E xamination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	University of Kerala	2006		Chemistry
M.Sc. (Analytical Chemistry)	University of Kerala	1997	First Class	Analytical Chemistry
B.Ed. (Physical Science)	University of Kerala	1995	Second Class	Physical Science
B.Sc. (Chemistry)	University of Kerala	1994	First Class	Chemistry, Physics, Mathematics
AISSCE	CBSE	1991	First Class	English, Mathematics, Physics, Chemistry, Biology
AISSE	CBSE	1989	Second Class	English, Hindi, Mathematics, Social Science, Science

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

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Associate Dean (Faculty Welfare)	NITT	2020	Till Date
Member, Convocation Committee	NITT	2022	
Member, Safety and Security Advisory Committee	NITT	2020	Till Date
Faculty Advisor	NITT	2019	2021
NCC Caretaker	NITT	2016	2017
Sports Convener	NITT	2009	2011
NSS Programme officer	NITT	2007	2009

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member, Board of Studies	Mar Ivanios College (Deemed University), Trivandrum	2019	Till Date
Subject Expert for Faculty Interview committee	Mar Ivanios College (Deemed University), Trivandrum	2019	Till Date
Ph.D. thesis evaluator	1. M.S. University, Tirunelveli 2. CUSAT, Cochin 3. Kerala University, Trivandrum 4. NIIST(CSIR), Trivandrum	2019	Till Date
Ph.D. viva-voce examiner	1. M.S. University 2. Kerala University 3. CECRI(CSIR), Karaikudi		
Doctoral Committee members	1. NICHE, Kumaracoil, Kanyakumari. 2. Vels University, Chennai 3. NIIST (CSIR) Trivandrum		
M.Phil. thesis evaluator	1. Kerala University, Trivandrum		

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

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2020	Best Performer Award	NITT
2019	Faculty Award (Consultancy Project)	NITT

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2002	Senior Research Fellowship	CSIR, MHRD	January/2002	January/2005

13. Details of Academic Work

- (i) Curriculum Development
 - (a) Establishment of Analytical Chemistry Lab (CH 612)
- (ii) Courses taught at Postgraduate and Undergraduate levels

Presently I have been teaching CHIR11 and CHIR12 (Chemistry) I B.Tech. course first year students.

For M.Sc. Chemistry, I am handling the subject:

1. Instrumental Methods of Chemical Analysis (CH 607):
Objectives: To introduce the basic principles, working and applications of Instrumental techniques like Chromatography, Electrophoresis, Potentiometry, spectroelectrochemistry and thermal methods to the I year M.Sc. students.
2. Polymer Chemistry (CH 620):
Objectives: To introduce the basic concept of macromolecules, polymerization processes, polymer stereochemistry, theory of polymer solutions and speciality polymers to the I year M.Sc. students.
3. Analytical Chemistry Lab (CH 612)

- (iii) Projects guided at Postgraduate level
 1. M.P. Shanmuga Priya in the project entitled "Functionalization of "Upper Rim" of Calix[4]arenes by Baylis-Hillman Reaction" (2007).
 2. R. Kalaivani in the project entitled "Genetic Engineering of the metal ion binding site in the Dinuclear Cu_A Centre of Cytochrome C oxidase" (2007).

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

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 H₂O₂ 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).
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).

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

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. R. Sakthivel in the project entitled "Cloud point extraction of Chromium (III) ions from Environmental samples" (2015).
22. Anju Shaji in the project entitled "Synthesis and Characterization of Azo dye and its Properties as an Electrochemical Sensor" (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-aryoyl-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).
27. P.S. Akshana in the project entitled "Synthesis of Quinolinylyl thiourea derivatives and determination of cations and anions at trace level" (2017).
28. Ajay Ajith in the project entitled "Differential Pulse Voltammetric method for the detection of Phenacetin using Molecularly Imprinted Electrochemical Sensor" (2017).
29. P.M. Meenu in the project entitled "UV Spectrophotometric assay of Omeprazole and its application to content uniformity testing and Stability studies" (2017).
30. Alen Sam Thomas in the project entitled "UV Spectrophotometric Assay of Ondansetron" (2017).
31. Swetha Mohan in the project entitled "Synthesis, Characterization and Fluorescence study of 2-methyl-8-quinolinol-5-sulphonic acid and its Al(III) and Zn(II) complexes" (2017).
32. Aiswarya V.V. in the project entitled "Electrochemical Detection of Doxepin using 4-

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

- (3-Aroylthioureido) Benzoic Acid derivatives” (2018).
33. Kavya P in the project entitled “Development of Spectrofluorimetric method for the determination of Ondansetron Hydrochloride in its Pharmaceutical formulations” (2018).
 34. Rasin P.V. in the project entitled “Synthesis of silver nanoparticles and its investigation on Electrochemical properties” (2018).
 35. Thanasekar C. in the project entitled “Synthesis, Characterization and Photo physical studies of β – diketo compound”(2019).
 36. Ardra Ashok K. P. in the project entitled “Spectrofluorimetric method for the determination of Salbutamol in its Pharmaceutical formulations” (2019).
 37. Thangapandiyan G. in the project entitled “Naphthalene based Acylthioureas: Synthesis, Structure and Spectral properties” (2019).
 38. Ajay P. in the project entitled “Organization of Inorganic Nano-materials with recyclable supramolecular matrices” (2020).
 39. Vidhya V. in the project entitled “CuCeO₂ anchored N-doped Reduced Graphene oxide for sensor application towards Nitroaromatics” (2020).
 40. Anshika Verma in the project entitled “Metal free selective diarylation of Isatin” (2021).
 41. Priya Garg in the project entitled “Multifunctional copper-based materials for overall water splitting applications” (2021).
 42. Anjana S in the project entitled “Synthesis and Characterization of Metal- β -diketonate Organosilicon Complexes” (2022).
 43. Sandhya K in the project entitled “Synthesis, Characterization & Ceramic conversion of a Photocurable Pre ceramic polymer” (2022).

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Synthesis and Characterization of novel functionalized solid sorbents for online flow injection preconcentrative	CSIR	21-04-2008	21-03-2011	Completed

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

separation and determination of inorganics by Atomic/Molecular spectrometric techniques				
Establishment of Nano/cost effective insulation coating for high temperature application to reduce insulation thickness	BHEL	04-10-2018	03-05-2020	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
E. Linga Reddy	Decomposition of hydrogen sulfide to hydrogen and sulphur assisted by non-thermal plasma dielectric barrier discharge reactor	Co-Supervisor	2012
D. Mannivannan	Preconcentration of trace heavy metal ions from real samples using functionalized sorbents	Supervisor	2013
Vinu Mohan A. M.	Design and development of electrochemical Biosensors using modified electrodes	Supervisor	2014
D. Karunanithi	Method development and validation of melatonin and sialic acid in cow, human and marketed milk products	Supervisor	2015
Aswini K. K.	Design & Development of Electrochemical Sensors using Molecularly Imprinted Polymers	Supervisor	2016
Aswathi. M	Synergistic enhancement effect of room temperature ionic liquid with cloud point extraction for the quantification of transition metal ions	Supervisor	2019
Vipin Vijay V	Active Filler Controlled Pre ceramic Polymer Pyrolysis: Advanced Ceramics & Composites	Supervisor	2019

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

Padmapriya M	Synthesis, characterization and adsorption performance of mesoporous geopolymer for effective removal of methylene blue from synthetic wastewater	Supervisor	2019
S. Naga Gayathri	Development and Validation of Drugs by Spectrofluorimetry Using Different Organised Media	Supervisor	2020
Akhil Kumar M M	Design and development of chitosan functionalized 8-hydroxy quinoline based thin film for fluorescence sensor application	Supervisor	2022

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
14 th April, 2007	Workshop on Bioseparation Techniques		Participant	TEQIP community Services	Department of Chemical Engineering, NIT, Tiruchirappalli, India
08-11, January, 2017	3 rd International Conference on Ionic Liquids in Separation and purification Technology (ILSEPT 2017)	International	Poster Presenter	Elsevier, USA	Kuala Lumpur, Malaysia
28, June 2009 to 03, July 2009	International Conference on Materials for Advanced Technologies (ICMAT2009)	International	Poster Presenter	Materials Research Society (MRS)	National University of Singapore, Singapore

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

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
International Conference on Nanomaterial & its Applications (ICNA-2007)	International	4-6 February 2007	Member of Organizing Committee	NIT, Tiruchirappalli
Training programme for National Eligibility Test (NET)	National	26 – 27, April 2007	Coordinator	NIT, Tiruchirappalli
Workshop on catalysts in environmental applications (WCEA-2007)	National	2-3, December 2007	Coordinator	NIT, Tiruchirappalli
National Seminar on Sensor & its Applications (NSSA-2007)	National	7 –8, December 2007	Organizing Secretary	NIT, Tiruchirappalli
Workshop on Electrochemistry & corrosion	National	3 rd September 2008	Coordinator	NIT, Tiruchirappalli
National Level Students' Symposium, HORIZON-2008	National	3 – 4, October 2008	Convener	NIT, Tiruchirappalli
Short term course on CSIR/UGC-JRF Exam in Chemical Sciences	National	30-08-2012 to 03-09-2012	Coordinator	NIT, Tiruchirappalli
Workshop on Applications of Spectroscopy in Inorganic, Organic & Physical chemistry (WASIOP)	National	29-03-2013 to 30-03-2013	Coordinator	NIT, Tiruchirappalli
Short term course on Innovative Methods in Chemical Sciences	National	05-05-2014 to 09-05-2014	Coordinator	NIT, Tiruchirappalli
Short term course on Training programme for CSIR/UGC-JRF exam in Chemical Sciences	National	01-09-2017 to 05-09-2017	Coordinator	NIT, Tiruchirappalli
National Level Students' Symposium, HORIZON-2018	National	28-29, September 2018	Convener	NIT, Tiruchirappalli

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

18. Invited Talks delivered

Topic	Date	Inviting Organization
Lanthanides And Their Applications	12 th July 2006	Post Graduate Department of Chemistry, Bishop Moore College, Mavelikara, Kerala
Analytical Chemistry	26 – 27, April 2007	NIT, Tiruchirappalli,
Recent Developments In Analytical Research	24 th January 2008	Shriram Institute for Industrial Research, Bangalore
Recent Techniques In Analytical Research And Development	27 th September 2008	National Institute of Technology (NIT), Tiruchirappalli
Applications Of Coordination Complexes	3 th January 2009	Mallappally Institute for Academic Excellence, Mallappally, Kerala
Corrosion Engineering	23-25, February, 2012	Govt. Engineering College, Wayanad
High Pressure Liquid Chromatography- Instrumentation And Applications	15 th March, 2013	National College (Autonomous), Tiruchirappalli
FLOW INJECTION ANALYSIS - Challenges And Opportunities	21-22, November, 2013	Govt. College, Kattappana, Kerala
Design And Development Of Electrochemical Sensors Using Gold Nanoparticles And Graphene Modified Glassy Carbon Electrodes	28 th , November, 2014	Govt. College, Kattappana, Kerala
Corrosion Engineering	18-20, February, 2015	Govt. Engineering College, Wayanad
Atomic Absorption Spectroscopy & Its Applications	2-3, March 2015	University College, Thiruvananthapuram
Green Chemistry & Its Applications In Day-To-Day Life	6, October 2015	Department of Chemistry, Shanmuga Industries Arts & Science College, Tiruvannamalai
Atomic Absorption Spectroscopy & Its Applications In Analytical Chemistry	14, October 2015	Department of Chemistry, Jamal Mohammed College, Trichy

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

Atomic & Molecular Spectroscopies And Its Applications	10, March 2016	Mar Ivanios college (Autonomous), Thiruvananthapuram
Solid Phase Extraction-Ion Imprinted polymers	24-26, November, 2016	Post Graduate Department of Polymer Chemistry, Govt. College, Attingal, Kerala
Solid Phase Extraction-Ion Imprinted polymers	08-09, December, 2016	Post Graduate Department of Polymer Chemistry, Govt. College, Kasaragod,
Molecularly Imprinted polymers as Biosensors	15-17, February, 2017	Post Graduate & Research Department of Chemistry, Bishop Moore College, Mavelikara, Kerala
Design & Development of Electrochemical sensors using Molecularly Imprinted Polymers	01-03, November, 2017	Post Graduate Department of Polymer Chemistry, Govt. College, Attingal
Fabrication of Electrochemical sensors using Screen Printed Electrodes	10-13, October, 2018	Indian Institute of Space Science and Technology (IIST), Trivandrum, Kerala
Analytical Separation Techniques	1-2, August, 2019	Department of Chemistry & Research Centre, Nesamony Memorial Christian College, Marthandam
Fabrication of Electrochemical Sensors using Screen Printed Electrodes	24 th , February, 2020	Department of Physics, Noorul Islam Centre for Higher education, Kumarcoil, Thuckalay, Kanyakumari District, Tamil Nadu
Fabrication of Electrochemical Sensors using modified Electrodes	13-19, May, 2020	Department of Physics, Bishop Moore College, Mavelikara, Kerala
Analytical Separation techniques	28, May 2020	PG and Research Department of Chemistry, Jamal Mohamed College
Design and Development of Electrochemical Sensors	22-28, June, 2020	Department of Chemistry, Saranathan College of Engineering, Tiruchirappalli, Tamil Nadu
Design and Development of Electrochemical Sensors	17, August, 2020	UGC-Human Resource Development Centre (HRDC), Kannur University

19. Membership of Learned Societies

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

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian society for Electroanalytical Chemistry (ISEAC)	
Life Member	Electrochemical Society of India (ECSI)	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
South Korea	One Month	Technical Education for Quality Improvement Programme (TEQIP)
Singapore	One Week	International Conference on Materials for Advanced Technologies (ICMAT2009)
Malaysia	Four Days	3 rd International Conference on Ionic Liquids in Separation and purification Technology (ILSEPT 2017)

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
A. Kalaiyarasi, N. S. P. Bhuvanesh, R. Karvembu & V. M. Biju	Electrochemical sensing of doxepin using acylthiourea-modified glassy carbon electrode	<i>Phosphorus, Sulfur, and Silicon and the Related Elements</i>			2021	
S. Naga Gayatri and V. M. Biju	A Confined Organised Media Enhanced Determination of Etodolac by Fluorimetry: Application to Spiked Human Urine and Pharmaceuticals	<i>Indian Drugs</i>				
Balamurugan Arumugam,	Electrochemical Reduction of	<i>Microchemical Journal</i>	159	105565	2020	

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

Balamurugan Muthukutty, Bhuvanewari Thasma Subramanian, Valasala Madhavan Nair Biju, Sayee Kannan Ramaraj	Procardia Drug with aid of Silver Phosphate/Strontium Phosphate Nanoparticles (AgP/SrP NPs) modified Glassy Carbon Electrode					
Akhil kumar M.M. and V.M. Biju	A quick responsive Chitosan-Oxine based thin film to recognize and remove Zn ²⁺ ion from potable water	<i>Chemistry Select</i>	5	11096–11105	2020	
Vipin Vijay V, P.P. Shyin, V.M. Biju, Renjith Devasia	Fabrication and property evaluation of titanium silicide active filler incorporated ceramic matrix composite	<i>Ceramics International</i>	46	21489–21495	2020	
Akhil kumar M.M. and V.M. Biju	A cost-effective chitosan-oxine based thin film volatile acid vapour sensing application	<i>New Journal of Chemistry</i>	44	8044-8054	2020	
S. Naga Gayatri and V. M. Biju	A Micelle Enhanced Spectrofluorimetric Determination of Melphalan: Application to Content Uniformity Testing and Human Plasma	<i>Tenside Surfactants & Detergents</i>	57	40-44	2020	
M. Padmapriya, S.T. Ramesh and V.M. Biju	Characterization, morphology and stability assessment of low-cost industrial by-product as an adsorbent for the removal of methylene blue from aqueous solution	<i>Separation Science and Technology</i>	55	471-486	2020	
S. Naga Gayatri, V. M. Biju and A.M. Starvin	Determination of Ondansetron by Spectrofluorimetry: Application to Forced Degradation	<i>Journal of Fluorescence</i>	29	203-209	2019	

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

	Study, Pharmaceuticals and Human Plasma					
A. Kalaiyarasi, J. Haribabu, D.Gayatri, K.Gomathi, N.S.P, Bhuvanesh, R. Karvembu, V.M.Biju	Chemosensing, molecular docking and antioxidant studies of 8-aminoquinoline appended acylthiourea derivatives	<i>Journal of Molecular Structure</i>	1185	450-460	2019	
M. Padmapriya, S.T. Ramesh and V.M. Biju	Seawater based mesoporous geopolymer as a sorbent for the removal and recovery of methylene blue from wastewater	<i>Desalination and Water Treatment</i>	138	313-325	2019	
S. Naga Gayatri, V.M.Biju, Meenu P M	Stability Indicating UV Spectrophotometric Method for Estimation of Omeprazole and its Application to Content Uniformity Testing	International Journal of Pharmaceutical Quality Assurance and Pharmaceutical analysis	9	158-165	2018	
M Aswathi, M S Suryamol and V M Biju	Cloud point extraction of Cr(III) and Cr(VI) ions using novel room temperature ionic liquid N-methyl-N,N-trioctyl-1-ammonium-5,7-diiodoquinoline-8-olate followed by FAAS quantification	<i>Indian Journal of Chemistry</i>	57A	1448-1453	2018	
S. Naga Gayatri and V. M. Biju	A micelle enhanced spectrofluorimetric determination of pirlfenidone: Application to content uniformity testing and human urine	<i>Journal of Fluorescence</i>	28	951-957	2018	

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

Vinu Mohan A. M., Aswini K.K., and V. M. Biju	Selective electrochemical detection of dopamine based on molecularly imprinted poly(5-amino 8-hydroxy quinoline) immobilized reduced graphene oxide	<i>Journal of Materials Science</i>	53	10627–10639	2018	
M. Aswathi, Suja Mathai, Suju C. Joseph, and V. M. Biju	Room temperature ionic liquid, cetyl pyridinium naphthenate, supported cloud point extractive separation and ultra-trace determination of copper in blood and environmental samples	<i>Separation Science & Technology</i>	52	2540-2546	2017	
V. M. Biju, S. Naga Gayatri and Alen Sam Thomas	A UV Spectrophotometric assay method for available brands of Ondansetron hydrochloride	<i>World Journal of Pharmacy and Pharmaceutical Sciences</i>	06	820-827	2017	
Vipin Vijay, V M Biju, Renjith Devasia	Active Filler Controlled Polymer Pyrolysis – A Promising Route for the Fabrication of Advanced Ceramics	<i>Ceramics International</i>	42	15592 - 15596	2016	
S. Naga Gayatri and V.M.Biju	Assay of Pirfenidone by UV Spectrophotometry	<i>Journal of Chemical and Pharmaceutical Research</i>	08	36-41	2016	
S. Naga Gayatri and V.M.Biju	A UV Spectrophotometric Assay of sustained Release Brands of Tramadol Hydrochloride	<i>World Journal of Pharmaceutical and Life Sciences</i>	02	323-329	2016	
Vinu Mohan A. M., Aswini K.K., and V. M. Biju	Electrochemical sensing of hydroxylamine using a wax impregnated	<i>Micro Chimica Acta</i>	183	2013–2021	2016	

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

	graphite electrode modified with a nanocomposite consisting of ferric oxide and copper hexacyanoferrate					
Aswini K. K., Vinu Mohan A. M. and V. M. Biju	Molecularly imprinted poly(4-amino-5-hydroxy-2,7-naphthalene disulfonic acid) modified glassy carbon electrode as an electrochemical theophylline sensor	<i>Materials Science & Engineering C</i>	65	116-125	2016	
V.Vijay, S.Bhuvanewari, V.M.Biju and R. Devasia	Influence of Titanium silicide Active filler on the Microstructure Evolution of Borosiloxane-Derived Si-B-O-C ceramics	<i>Journal of Ceramic Science & Technology</i>	07[01]	97-106	2016	
D.Manivannan and V.M.Biju	Synthesis and chelation properties of a new polymeric ligand derived from 1-amino-2-naphthol-4-sulfonicacid	<i>Journal of AOAC international</i>	98	188-191	2015	
Vinu Mohan A. M., Rambabu Gutru, Aswini K.K., and V. M. Biju	Electrocatalytic behaviour of hybrid cobalt manganese hexacyanoferrate film on glassy carbon electrode,	<i>Thin solid films</i>	565	207-214	2014	
D.Karunanithi, A.Radhakrishna, K.P. Sivaraman & V.M.Biju	Quantitative determination of melatonin in milk by LC-MS/MS	<i>Journal of Food Science & Technology</i>	51	805-812	2014	
Vinu Mohan A. M., Aswini K. K., and V. M. Biju	Electrochemical co-deposition of gold particle-poly(2-(2-pyridyl) benzimidazole) hybrid film on glassy carbon electrode for	<i>Sensor and Actuators B: chemical</i>	196	406-412	2014	

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

	the electrocatalytic oxidation of nitric oxide					
Aswini K. K., Vinu Mohan A. M. and V. M. Biju	Molecularly imprinted polymer based electrochemical detection of L-cysteine at carbon paste electrode	<i>Materials Science & Engineering C</i>	37	321-326	2014	
E. Linga Reddy, J. Karuppiah, V.M. Biju, Ch.Subrahmanyam	Catalytic packed bed non-thermal plasma reactor for the extraction of hydrogen from hydrogen sulfide	<i>International Journal of Energy Research</i>	37	1280-1286	2014	
D.Karunanithi, A.Radhakrishna, V.M.Biju	Quantitative determination of Sialic acid in Indian milk and milk products	<i>International Journal of Applied Biology and pharmaceutical technology</i>	4	318-323	2013	
Vinu Mohan A. M., Aswini K. K., Maria Starvin A and V. M. Biju	Amperometric detection of glucose using Prussian blue – graphene oxide modified platinum electrode	<i>Analytical Methods</i>	5	1764-1770	2013	
E. Linga Reddy, V.M. Biju, Ch.Subrahmanyam	Hydrogen production from hydrogen sulfide in a packed bed DBD reactor	<i>International Journal of Hydrogen Energy</i>	3	8217-8222	2012	
E. Linga Reddy, V.M. Biju, Ch.Subrahmanyam	Production of hydrogen and sulfur from hydrogen sulfide assisted by nonthermal plasma	<i>Applied Energy</i>	37	87-92	2012	
D.Karunanithi, A.Radhakrishna, V.M.Biju	Quantification of N-acetylneuraminic acid(Neu5Ac) in human milk using N-glycolylneuraminic acid as internal standard by LC-MS/MS	<i>International Journal of Pharma and Bio Sciences</i>	3	299-308	2012	

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

E. Linga Reddy, V.M Biju and Ch. Subrahmanyam	Production of hydrogen from hydrogen sulfide assisted by dielectric discharge	<i>International Journal of Hydrogen Energy</i>	37	2204-2209	2012	
E. Lingareddy, V.M. Biju and Ch.Subrahmanyam	Non-thermal plasma assisted direct decomposition of H ₂ S into H ₂ and S	<i>International Journal Chemical and Environmental Engineering</i>	2	87-90	2011	
D.Manivannan and V.M.Biju	Determination of toxic heavy metals in sea water by FAAS after preconcentration with a novel chelating resin	<i>Water Science and Technology</i>	64	803-808	2011	
D. Manivannan, Maria Starvin and V. M. Biju	Preconcentration of Cu (II) from seawater using a novel and stable Phenol-Formaldehyde resin	<i>Water Science and Technology</i>	61	1853-1863	2010	
V.M. Biju and T.Prasada Rao	FAAS Determination of Selected Rare Earth Elements Coupled with Multielement Solid Phase Extractive Preconcentration	<i>Chemia. Analit. (Warsaw)</i>	50	935-944	2005	
R. Kala, V.M. Biju and T. Prasada Rao	Synthesis, characterization and analytical applications of erbium(III) ion imprinted polymer particles prepared via γ -irradiation with different functional and crosslinking monomers	<i>Anal. Chim. Acta</i>	549	51-58	2005	
A.M. Starvin, V.M. Biju and T. Prasada Rao	On-line solid phase extraction preconcentration of Ultra trace amounts of cobalt and nickel in soil and human hair samples for	<i>Atomic Spectroscopy</i>	25	238-244	2004	

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

	determination by flow injection flame AAS					
P. Gopikrishna, K.S. Rao, V.M. Biju, T. Prasada Rao and G.R.K. Naidu	Simultaneous preconcentration of Cu, Cd and Pb from soil samples by solid phase extraction and their determination by AAS	<i>Chemia. Analit.</i> (Warsaw)	49	383-393	2004	
C.R. Preetha, V.M. Biju and T. Prasada Rao	On-line solid phase extraction preconcentration of ultra trace amounts of zinc in fractionated soil samples for the determination by flow injection flameAAS	<i>Atomic Spectroscopy</i>	24	118-124	2003	
B. Vijayalakshmy, V.M. Biju and T. Prasada Rao	Spectrophotometric determination of Yttrium in Y-Al alloys with 5,7-diiodoquinoline-8-ol and Rhodamine 6G	<i>Indian J. Chem. Tech.</i>	10	466-469	2003	
V.M. Biju, J. Mary Gladis and T. Prasada Rao	Effect of γ - irradiation of ion imprinted polymer (IIP) particles for the preconcentrative separation of dysprosium from other selected lanthanides	<i>Talanta</i>	20	747	2003	
V.M. Biju, J. Mary Gladis and T. Prasada Rao	Ion imprinted polymer (IIP) particles : Synthesis, Characterization and dysprosium ion uptake properties suitable for analytical applications	<i>Anal. Chim. Acta</i>	478	43	2003	
J. Mary Gladis, V.M. Biju and T. Prasada Rao	On-line solid phase extraction of metal 5,7-	<i>Atomic Spectroscopy</i>	23	143	2002	

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

	dichloroquinoline-8-ol complex onto C ₁₈ bonded silica gel and Flame AAS determination of copper in sea water samples					
B. Vijayalakshmy; V.M. Biju and T. Prasada Rao	Selective Spectrophotometric determination of Cerium (IV)	<i>Indian Journal of Chemistry, Section A</i>	40A	1365	2001	
Sajitha Nair, V.M. Biju, B. Vijayalakshmy and T. Prasada Rao	Spectrophotometric determination of Zinc in soils and sediments with 5,7-diiodo-8-hydroxy quinoline and Rhodamine 6G	<i>Chemia Analit.,</i>	46	589	2001	
V.M. Biju and T. Prasada Rao	Spectrofluorimetric determination of Erbium in Sea water with 5,7-diiodo oxine and Rhodamine 6G	<i>Analytical Sciences</i>	17	1343	2001	
V.M. Biju, N.M Sita and T. Prasada Rao	Spectrofluorimetric determination of ultra trace amounts of Lutetium in Lanthanum, Praseodymium and Dysprosium oxides	<i>Analytical Letters</i>	34	211	2001	
V.M. Biju, M.L.P. Reddy and T.Prasada Rao & Geeta Kannan, A.K. Mishra and N. Balasubramanian	Luminescence determination of Europium in high purity Yttrium and Gadolinium oxides	<i>Analytical Letters</i>	33	2271	2000	
T. Prasada Rao and V.M. Biju	Trace determination of Lanthanides in Metallurgical, Environmental and Geological samples	<i>Critical Reviews in Analytical Chemistry</i>	30	179	2000	
T. Prasada Rao and V.M. Biju	Ultra-trace analysis of individual Rare earth elements in natural water samples	<i>Reviews in Analytical Chemistry, 21 (2002) 233.</i>	21	233	2002	
T. Prasada Rao, V.M. Biju and J. Mary Gladis	Overview of flow injection analysis of inorganics in India	<i>Pollution Research</i>	22	559	2003	

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

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
D.Karunanithi, A.Radhakrishna and V.M.Biju	Determination of sialic acid in milk and milk products by LC-MS/MS		157-159	International Conference proceeding on biologically active molecule		2012
	Preconcentration of Divalent Metal Ions Using 5-[(4- Hydroxyphenyl) Diazenyl] Quinolin-8-ol- Formaldehyde	IOSR Journal Of Pharmacy	24-31	Emerging Trends & Future Challenges in Chemical Sciences		2018
Vipin Vijay, Jayalatha T, V. M. Biju and Renjith Devasia	Effect of Titanium Silicide Active Filler on the Ceramic Conversion of Polycarbosilane	Materials Today: Proceedings	25085– 25091	International Conference on Advances in Materials and Manufacturing Applications (IconAMMA_2017)		2018
D Manivannan and V M Biju	Determination of Cu(II), Co(II), Mn(II) and Cd(II) ions at trace levels by FAAS after preconcentration using modified Alumina- Polyethylene glycol	International Journal of Pharmacy and Biological Sciences	71-83	Emerging Trends and Future Challenges In Chemical Sciences- Chem Fest-18		
M. Padmapriya S.T. Ramesh and V.M. Biju	Synthesis of seawater based geopolymer: Characterization and adsorption capacity of methylene blue from wastewater	Materials Today: Proceedings	1770- 1776	International Workshop-cum- Conference on Smart Materials and their Applications in Recent Technologies (SMART 2020)		2022

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

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
T Prasad Rao and V M Biju	Encyclopedia of Analytical Science	Elsevier, oxford London.	2005	second edition, Vol.8, pp. 358-365.