

CURRICULUM- VITAE



Name : Dr. V. RAJ
Date of Birth : 03-06-1968
Designation : Professor and Head
Address for communication : Department of Chemistry
Periyar University
Salem-636 011

Permanent Address : 69 Kamaraj Nagar
Alagunatchiapuram-627 754
Tirunelveli District
TAMIL NADU, INDIA

Educational Qualifications

Degree	University	Subject	Year	% of marks
B.Sc.	Madurai Kamaraj University Madurai	Chemistry	1988	82.6
M.Sc.	---do---	Chemistry	1991	68.1
Ph.D	---do---	Organic Chemistry	1999	---

Title of Ph.D Thesis : STUDIES ON LINEAR FREE ENERGY
RELATIONSHIPS

Additional Qualifications

1. Certificate in 'Introduction to Computers & Basic Programming'
2. Passed 'PRAGYA' in Official Hindi

Honors and Awards

Sl.No	Name of the Award	year	Awarding authority
1	Junior Research Fellowship	1991	CSIR-UGC, New Delhi
2	Senior Research Fellowship	1993	CSIR, New Delhi
3	Bright student award (SSLC)	1983	Govt. of Tamil Nadu
4	First rank	1987	SRNM College, Sattur

1. College first rank in English(B.Sc.)
2. College second rank in Chemistry and Tamil (B.Sc.)
3. Received **Best International Review paper award** for the year 2003 by CECRI, Karaikudi
4. Awarded young scientist fellowship by DST-FTPYS, 2003
5. **Bharath Shiksha Ratan Award** by Global Society for Health & Educational Growth, New Delhi, 2010
6. **Best paper award** in International Seminar on Functional Foods and Health (ISFAH-2011), Periyar University, Salem
7. **Best Paper Awards** (Second and Third prize) in NSNANO-2011, Sree Narayana College, Kollam, October 12-14, 2011
8. **Rashtriya Gaurav Award** by India International Friendship Society, New Delhi, 2012
9. **Best Citizens of India Award**, by International Publishing House, New Delhi, 2012
10. **Bharath Excellence Award and Gold Medal**, by Friendship Forum of India, New Delhi, 2013
11. **Glory of India Award and Certificate of Excellence** by India International Friendship Society, New Delhi, 2013
12. **Best paper Award**, Second Prize in CAMET-2013, SRKMV, Coimbatore, July 2013

Research Experience:

Institution	Designation	Period	Area of Research
VHNSN College Virudhunagar	JRF & SRF (CSIR)	1-9-1991 to 31-8-1996	Physical Organic Chemistry-Kinetics, Catalysis and Spectroscopy
CECRI, Karaikudi	Scientist	21-11-1997 to 2-12-2004	Anodising, Plating, Polishing, Polymer coatings
Periyar University, Salem	Reader	3-12-2004 to 02.12.2007	Advanced Materials, Electrochemistry, Medicinal Chemistry
Periyar University, Salem	Associate Professor	3-12-2007 to 02.12.2010	Advanced Materials Electrochemistry Medicinal Chemistry
Periyar University, Salem	Professor	3-12-2010 to till date	Advanced Materials Electrochemistry Medicinal Chemistry

Research areas of interest

1. Electrochemistry
2. Conducting polymers
3. Advanced Nanomaterials
4. Medicinal Chemistry
5. Phytochemistry

Publications	: 79
Books	: 5
Patents applied	: 2
No.of Papers presented	: 126
No. of PDF guided	: 1
No.of Ph.D. scholars guided	: 8
No.of Ph.D. scholars guiding	: 10 (SRF -4, INSPIRE-1, JRF-1, URF-1)
No.of M.Phils. produced	: 43
No.of Projects completed	: 10 (65 lakhs)
No. of Ongoing Projects	: 2 (CSIR-1, DST-1) 38 lakhs
No.of Seminars organized	: 19
No.of Seminars attended	: 60
No.of invited lectures delivered	: 90
No.sessions chaired in seminars	: 8
Referee for journals	:30

Previous Positions

Institution	Designation	Period	Subject and Course
VHNSN College Virudhunagar	CSIR-JRF	From 1-9-1991 to 31-08-1993	Inorganic Chemistry for B.Sc.
VHNSN College Virudhunagar	CSIR-SRF	From 1-9-1993 to 30-11-1996	Inorganic Chemistry for B.Sc.
SN College, Madurai	Lecturer	From 12-12-1996 to 20-11-1997	All chemistry subjects for B.Sc. and Physical Chemistry for M.Sc.
CECRI, Karaikudi	Scientist	From 21-11-1997 to 2-12-2004	Engineering Chemistry and Anodizing for B.Tech. Course.
Periyar University Salem	Reader	From 3-12-2004 to 2.12.2007 date	Physical Chemistry
Periyar University Salem	Associate Professor	From 3-12-2007 to till date	Physical Chemistry
Periyar University Salem	Head (I/C) Department of Chemistry	From 26-07-2008 to 2.12.2008	Physical Chemistry
Periyar University Salem	Controller of Examinations(I/C)	From 16-03-2010	NA
Periyar University Salem	Deputy Controller of Examinations(I/C)	From 27-01-2010 to 29.08.2010	NA
Periyar University Salem	Head (I/C) Department of Chemistry	From 01-06-2012 to 21.10.2012	Physical Chemistry
Periyar University Salem	Professor and Head Department of Chemistry	From 22-10-2012 to till date	Physical Chemistry

Honorary Assignments

- i) **Member, Senate**, Periyar University
- ii) **Member, Standing Committee**, Periyar University
- iii) **Member, Standing Committee, SC/ST Cell**, Periyar University
- iv) **Member, Selection committee**, Appointment of Professor, Associate Professor, and Guest Lecturers in Chemistry and Biochemistry
- v) **Chairman, Selection Committee**, Appointment of JRFs, SRFs, PFs, URFs
- vi) **Chairman, Department committee**, Periyar University
- vii) **Chairman, Admission Committee**, for M.Sc., M.Phil., Ph.D. admissions
- viii) **Chairman, Periyar University Chemistry Alumni Association (PUCAA)**
- ix) **Chairman, Periyar University Chemistry Parents-Teachers Association (PUCPTA)**
- x) **Member, Scrutinizing Committee**, Appointment of Chemistry and Biochemistry Guest lecturers
- xi) **Member, Scrutinizing Committee**, Admission for M.Sc. and M.Phil. courses, Periyar University
- xii) **Chairman, Board of studies**, PG and M.Phil. Chemistry, Periyar University Affiliated Colleges (2012-15)
- xiii) **Chairman, Board of studies**, PG and M.Phil. Chemistry, Periyar University Departments(2012-15)
- xiv) **Member, Board of studies**, PG and M.Phil. Biochemistry, Periyar University (2008-09 and 2012-15)
- xv) **University Representative, Academic Council, Sri Sarada College, Salem(2009-2011)**
- xvi) **Chairman (Adhoc), Board of Question setters**, B.Sc, M.Sc. Chemistry, PRIDE practical examinations, December 2008
- xvii) **Secretary, Electroplating and Metal Finishing Group, SAEST**
- xviii) **Chairman (Adhoc), Board of studies**, PG and M.Phil. Chemistry, Periyar University (2008-09)
- xix) **Member, Board of studies**, PG and M.Phil. Chemistry, Sri Sarada College, (2011-2013)
- xx) **Member, Board of studies**, PG and M.Phil. Chemistry, Govt.Arts College, Salem-7 (2011-2013)
- xxi)
- xxii) **Camp Officer**, UG Arts Valuation Camp, From 18.11-2009 to 17.1.2010
- xxiii) **Convener, Robing Hall arrangements, Periyar University 11th 12th Annual Convocations**
- xxiv) **Convener, Eletrical and Civil Maintenance of Convocation Hall, Periyar University 11th 12th Annual Convocations**
- xxv) **Convener**, Video and Photography, periyar University 9th and 10th Annual Convocations
- xxvi) **Convener**, Accommodation Committee, 12th Tamil Science Congress, Periyar University, Aug.2012
- xxvii) **Convener**, Printing invitations, Former President Abdul Kalam's Visit to Periyar University, Nov.2012

- xxviii) **Member**, Traffic and Security Committee, Periyar University 6th, 7th and 8th Annual Convocations
- xxix) **Member**, Weight Verification Committee, Loading of Old papers, covers for sale (2012,2013)
- xxx) **Stock verification officer**, Biochemistry department (2005,2006, 2007), Ladies Hostel (2008,2009), Computer science department (2010,2011) and Office of Controller of Examinations (2012,2013)
- xxxix) **Chief Superintendent** for M.Sc. and M.Phil. Chemistry Examinations
- xxxixii) **Chief Superintendent** for B.Ed. Examinations, Periyar University, May 2008.
- xxxixiii) **Additional Chief Superintendent**, PRIDE Examinations, Nagercoil, Pondicherry Aug & Oct 2009.
- xxxixiv) **Member**, SC/ST Cell, Periyar University (2010-12)
- xxxixv) **Observer** in Central Law College, Salem for **B.L. Examinations of Dr. Ambedkar law University, May-2005**
- xxxixvi) **Course Co-ordinator** for 2 years 2003 and 2004 for **2 refresher courses Conducted by CECRI**
- a. Refresher Course on Anodizing of Aluminium and its alloys
 - b. Refresher Course on Colouring of Metals
- xxxixvii) **Member of the Inspection commission** for granting affiliation to the colleges for the courses B.Sc. M.Sc. and M.Phil. Chemistry
- xxxixviii) **Member, Advisory Committee**, Department of Environmental Science, 2004-05
- xxxixviii) **Member, Local Area Environment Committee**, Tamil Nadu Pollution Control Board, Salem. (2005-06)
- xxxixix) **Member, Doctoral committee** for many scholars of Periyar, Bharathidasan, Bharathiar, Alagappa, VIT and Anna Universities
- xxxixx) **Member, Project Evaluation Committee**, Sona College of Technology
- xxxixxi) **External examiner for M.Sc. and M.Phil.** Chemistry of Bharathidasan, Alagappa, Madurai Kamaraj, Manonmaniam Sundaranar, Gandhigram Rural Institute, Bharathiar and Sri Venkateswara Universities and M.Tech.Nanoscience and Technology of KSR College of Technology and **Ph.D.** Chemistry of Manonmaniam Sundaranar and Alagappa Universities
- xxxixxii) **Question paper setter for M.Sc. and M.Phil.** Chemistry of Alagappa University, Madurai Kamaraj University, Bharathidasan and Bharathiar University and M.Tech. Nanotechnology of KSR College of Technology
- xxxixxiii) **Chief Editor, Science Explore**, SELPTRUST Publications
- xxxixxiv) **Chief Editor, Chemical Research Letters**, Periyar University Publications
- xxxixxv) **Referee for 30 journals**

Journal of Hazardous Materials
 Applied Surface Science
 Surface and Coatings Technology
 Journal of Corrosion Engineering Science and Technology
 Journal of Applied Polymer Science
 Portugalea Electrochimica Acta

Journal of Nanoscience and Nanotechnology
Medicinal Chemistry Research
Materials Letters
Journal of Surface Engineering Materials and Advanced Technology
Journal of Condensed Matter Physics
Arabian Journal of Chemistry
Journal of Molecular Structure
Materials Research Bulletin
International Journal of Medicinal Plants Research
Separation and Purification Technology
Journal of Bacteriological Research
African Journal of Environmental Science and Technology
Journal of Materials and Environmental Science
Journal of Surface Science and Technology
Journal of Environmental Science and Technology
Research Updates in Polymer Science
Global Research Journal of Agriculture and Biological Sciences
Indian Journal of Engineering and Materials Sciences
Global Research Journal of Microbiology
Medical Practice and Reviews
Journal of Physics and Chemistry of Solids
Journal of Food Science and Technology
International Journal of Physical Sciences
American Chemical Science Journal
Advanced Materials and Interfaces

Social Activities

1. Helping poor students by taking tuition free of cost to score high marks in examinations
2. Guiding poor students to appear for competitive examinations, NET, GATE etc.
3. Giving career guidance to all my students free of cost
4. Providing health tips and environmental awareness to my village people
5. Giving study materials free of cost to poor students
6. Providing magazines, G.K. subjects and other books necessary for competitive examinations to poor village students of my village
6. Giving free education to illiterate aged people in my village
7. **Member**, SC/ST Cell, Periyar University
8. **Secretary**, Students and Employees Association (SEA), 1989-91
9. **EC Member**, CECRI SC/ST Employees Federation, 1999-2000
10. **Returning Officer**, Elections of CECRI SC/ST Employees Federation, 2000-01
11. **Treasurer**, Periyar University Teachers Association (2008-10)
12. **Treasurer**, Anandham Enclave House Owners Welfare Association (2009-11).
13. **Member**, Tamil Nadu University and College SC/ST Teachers Association
14. **Member**, Periyar University SC/ST Staff Association

Extra Curricular Activities

1. Won Gold medals in Villupattu, University level, Madurai Kamaraj University (1987 and 1988)
2. Won Silver medal in Folk dance, Zonal Level, Madurai Kamaraj University(1987)
3. Won Bronze medal in College Quir, University Level, Madurai Kamaraj University (1989)
4. First prize in Vocol Solo, SRNM College, Sattur (1988)
5. Won first prize in Tamil Elocution, RC Middle School (1979).

ANNEXURES

Projects completed

Sl.No.	Role	Project title	Duration In years	Funding agency	Amount in lakhs
1	Co-I	Heavy Nickel Plating of Electrolyzer Cell Plates	2 (2001-2003)	NLC, Neyveli	11.02
2	PI	Formation of Transparent Nanoporous Alumina Films from Aluminium Sputtered on Glass Substrate	3	DST, New Delhi	9.6
3	Co-I	Electropolishing of 420 grade stainless steel	2	Easystitch Needles, Bangalore	1.5
	Co-I	Electropolishing of SS and Anodizing of Cast Al CNP02/11/TS	1/4	Roots Multiclean Ltd., Coimbatore	0.15
4	Co-I	Electropolishing of 202/304 stainless steel racks CNP 02/2004/TTBD	1	Tufflon India Interiors, Bangalore	1.25
	Co-I	Electropolishing of SS bush and Roller components	1/4	L.G.Balakrishna & Bros., Coimbatore	0.21
5	PI	Electropolishing of 304 stainless steel components CNP08/2003/TTBD	1	Sai Engineering, Thirumazhisai	0.85
6	Co-I	Colouring of Anodized Aluminium and its alloys by Electroless Technique	1	CECRI, Karaikudi	1.0
7	PI	Hard Anodizing of LCA Components	1	CVRDE, Avadi	0.46
8	Co-I	Wealth from Waste: Production of ethanol from sago solid waste	1	Salem-Dharmapuri Chamber of Commerce	0.52
9	PI	Formation of Ceramic Alumina Nanocomposite coatings on Aluminium	3	UGC, New Delhi	4.31

		by Plasma Electrolytic oxidation			
10	Co-I	Carbon Nanotube Modified Electrodes for Enhanced Voltammetric Sensing of Organic Pollutants	3	DST, New Delhi (Collaborative)	32.47
11	Co-I	Synthesis of Nanocrystalline Nickel on Aluminium	2	UGC	1.75
12	Co-I	Synthesis of Nanocrystalline copper by pulse electrodeposition	2	UGC	1.80

Ongoing Projects

Sl.No.	Role	Project title	Duration in years	Funding agency	Amount in lakhs
1	PI	Fabrication of magnetic and semiconductor nanostructures	3	CSIR, New Delhi	17.26
2	PI	Development of polymer impregnated nanoceramic coatings on metals for enhanced corrosion resistance	3	DST, New Delhi	19.0

Workshops/Schools/Seminars Organised

1. All India Winter School on Microcomputers in Chemistry, VHNSN College, Virudhunagar, Nov.18-30, 1991
2. Inter Collegiate Seminar in Chemistry, VHNSN College, Virudhunagar, Aug.13&14 1994
3. Inservice Training to PG Chemistry Teachers, VHNSN College, Virudhunagar, Dec.26-30, 1995
4. UGC Conference on Recent Advances in Physical Organic Chemistry, VHNSN College, Virudhunagar, Mar.29, 1996
5. University-Industry Linkage Seminar on Membrane Technology Salem, March 11, 2005
6. One day Orientation programme for College Teachers on Environmental Education, Salem, March 15,2005.
7. Co-Convenor, National Seminar on Recent Advances in Nanoscience and Technology (RANSAT-2005), Salem, 29-30 September 2005.
8. Member, National Conference on Recent Advances in Chemistry (RAC-2007), Periyar University, Salem, March 1-2,2007.
9. Convenor,National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Periyar University, Salem, December 2007.
10. Coordinator, National Conference on recent Advances in Metalloorganic Chemistry (RAMC-2008), Periyar University, Salem, October, 2008.
11. Member, National Seminar on Earth resources, Environment and Earth Sciences for Society, Periyar University, Feb 5-7, 2009
12. Member, National Conference on Recent Advances in Chemical Sciences (RACS-2009), Periyar University, Salem, March 2009.
13. Member, Seminar on Role of Periyar University in Social Welfare and Higher Education, Salem, July 2010.
14. Member, National Seminar on Frontiers in Organic Synthesis and Medicinal Chemistry (FOSMC-2011), Salem, Feb.2011

15. Executive Member, Recent Trends in Chemistry, Salem, Mar.2012
16. Coordinator-Chemistry sessions of 12th Tamil Science Congress, 23-25
Aug.2012, Periyar University
17. President-National Seminar on “Recent Trends in Advanced Materials” ERK
College, Harur, 5th Aug.2012
18. Convener-Workshop on “Applications of Radioisotopes in Chemical Sciences
(ARCS- 2012), Periyar University, 28th Sep.2012
19. International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013.

Invited Lectures delivered

- 1-6. "Pretreatment of Aluminium for Anodizing," Refresher course on "Anodizing of Aluminium and its alloys", Conducted by CECRI every year from 1999 to 2004 (6 lectures)
 - 7-12. "Chemical polishing of Aluminium", Refresher course on Anodizing of Aluminium and its alloys, Conducted by CECRI every year from 1999 to 2004 (6 lectures)
 - 13-22. "Colouring of anodized aluminium" Refresher course on "Anodizing of Aluminium and its alloys" Conducted by CECRI every year from 1999 to 2004 (6 lectures) and "Colouring and Blackening of metals from 1999 to 2002 (5 lectures)
 - 23-31. "Pretreatment of Aluminium", in Refresher courses on "Electroplating of Cu, Ni and Zn, Conducted by CECRI every year from 1999 to 2004 (6 lectures) on "Surface Engineering" (1 lecture), CECRI, 2001, and on Industrial Electroplating and Metal Finishing"(2 lectures), CECRI, 2002, 2003
 - 32-37. "Industrial anodizing of Aluminium", Refresher course on Anodizing of Aluminium and its alloys, Conducted by CECRI every year from 1999 to 2004 (6 lectures)
 - 38-41. "Pulse anodizing of Aluminium" Refresher course on Anodizing of Aluminium and its alloys, Conducted by CECRI every year from 2001 to 2004 (4 lectures)
 - 42-51. " Evaluation of anodic oxide coatings," Refresher course on Anodizing of Aluminium and its alloys, Conducted by CECRI every year from 1999 to 2004 (6 lectures) and on Testing of Electrodeposits from 2001 to 2004 (4 lectures)
 - 52-55. "Electropolishing of stainless steel" Refresher course on Colouring and Blackening of metals, Conducted by CECRI every year from 1999 to 2002 (4 lectures)
 - 56-61 "Sealing of anodic oxide coatings" Refresher course on Anodizing of Aluminium and its alloys, Conducted by CECRI every year from 1999 to 2004 (6 lectures)
- (Total 61 lectures at Refresher courses, CECRI Karaikudi)**
62. "Future Prospects in Chemistry", Inaugural Address, Chemistry Association, Kandaswamy Kandam's College, P. Velur, Namakkal, 12-10-2006
 63. "Chemistry in Nanotechnology", National Workshop on Recent Trends Nanotechnology and its applications, Sethu Institute of Technology, Madurai, 09-07-2007
 64. "Nanochemistry", Inaugural Address, Association of Physical Sciences, SN College, Madurai, 08-01-2007

65. "Chemistry and Nanotechnology", Inaugural Address, Chemistry Association, Vellalar College, Erode, 31-08-2007.
66. "Nanoscience and Technology", Inaugural Address, Association of Physical Sciences, Sri Sarada College, Salem, 27-02-2009.
67. "UV-Visible Spectroscopy", Workshop on Spectroscopy, Vinayaka Missions University, Salem- 14-03-2009.
68. "Pollution Control Methods", One day Orientation programme for College Teachers on Environmental Education, Periyar University, Salem, March 15, 2005.
69. "Conducting Polymers", Workshop on Advanced Polymer Composites, Kamaraj College of Engineering and Technology, 05-12-2008
70. "Recent advances in conducting polymers", Inaugural Address, Chemistry Association, SRNM College, Sattur, March 2010
71. "Nano metals and metal oxides", National seminar on Emerging Trends in nanotechnology, SPK College, Alwarkurichi, Dec.22.2010
72. "Role of Chemistry in Nanotechnology" Refresher Course in Chemistry, Academic Staff College, Bharathiar University, Oct. 18, 2010
73. "Synthetic Organic Metals" Refresher Course in Chemistry, Academic Staff College, Bharathiar University, Oct.18, 2010.
74. "Role of Science in Engineering", Inaugural Address, Science Club, Ganesh College of Engineering, Sep.28, 2011
75. Nanoceramic coatings on aluminium, National Seminar on 'Emerging trends in Nanomaterials', Muthayammal College of Arts and Science, Rasipuram, Feb.2012
76. Importance of Chemistry, DST-INSPIRE programme, Jeyam College of Engineering, Dharmapuri, Feb. 25 2012.
77. Job opportunities in Chemical, leather and electronic industries, Entrepreneurship programme for SC/ST Unemployed Youth, PRIMS, Periyar University, Feb.24. 2012
78. Emerging Trends in Research in Chemistry, International Seminar on Emerging Trends in Research, TBAK College, Keelakarai, April 12.2012
79. Ceramic nanocomposite Coatings, Refresher course, Bharathiar University, May 09, 2012.

80. Conducting Polymers, Refresher course, Bharathiar University, May 09, 2012.
81. Advanced Materials, National Seminar on “Recent Trends in Advanced Materials”, ERK College, Dharmapuri, 5th Aug.2012
82. Corrosion inhibition of aluminium by nanocoatings, National Seminar on Corrosion Inhibition by nanomaterials, Muthayammal Technical Campus, Rasipuram, June 14.,2012.
83. Career Opportunities in Chemistry, Inaugural address, Chemistry Association, KSR College of Arts and Science, Thiruchencode, Feb.25, 2013
84. Career Opportunities in Chemistry, Inaugural address, Chemistry Association, Vivekananda College of Arts and Science, Thiruchencode, Feb.27, 2013
85. Nanoceramic coatings, National Conference on Advanced Materials for the Emerging Technologies (CAMET-2013), Coimbatore, July 2013.
86. “Role of Chemistry in Nanotechnology” Refresher Course in Chemistry, Academic Staff College, Bharathiar University, Aug. 27, 2013
87. “Synthetic Organic Metals” Refresher Course in Chemistry, Academic Staff College, Bharathiar University, Aug. 27, 2013
88. Advanced Materials, National Seminar on “Recent Advances in Materials Science”RAMS-2013, Bharathiar College of Arts and Science, Attur, 6th Oct..2013
89. Career Opportunities in Chemistry, Inaugural address, Chemistry Association. Sri Sakthi Kailash College of Arts and Science for Women, Salem, Oct. 2013
- 90.

Sessions Chaired in Seminars/Conferences

1. National Seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University, Karaikudi , June 2007.
2. National Seminar on Frontiers in Organic Synthesis and Medicinal Chemistry Periyar University, Salem, Feb.2011.
3. National Seminar on Emerging trends in nanomaterials SPEC-2012, Muthayammal College of Arts and Science, Rasipuram, Feb.2012
4. International Seminar on Emerging Trends in Research, TBAK College, Keelakarai, April 12.2012
5. 12th Tamil Science Congress, Chemistry Session , Periyar University, Aug.23-25, 2012
6. National Seminar on “Recent Trends in Advanced Materials”, ERK College, Dharmapuri, 5th Aug.2012
7. National Seminar on “Recent Advances in Surface Science, Gandhigram Rural Institute, Gandhigram, 13,14 Feb.2013
8. National Seminar on “Recent Advances in Materials Science”, Bharathiar College of Arts and Science for Women, Attur, 6th Oct..2013

Workshops/Schools/Seminars attended

1. All India Winter School on Microcomputers in Chemistry, VHNSN College, Virudhunagar, Nov.18-30, 1991
2. Seminar on Recent Advances in Chemistry, Vivekananda College, Thiruvudagam, Jan. 27 &28, 1993
3. Inter Collegeate Seminar in Chemistry, VHNSN College, Virudhunagar, Aug.13&14 1994
4. National Seminar on Recent Advances in Electrochemical Science, Alagappa University, Karaikudi, Dec.23 1994
5. National Seminar on Correlation Analysis in Chemistry, Annamalai University, Annamalainagar, Jan.20-22, 1995
6. 12th Annual Conference of ICC, Warangal,Dec.1993.
7. UGC-DRS National Seminar on Trends in Dynamic and Structural Studies in Inorganic and Physical Chemistry, Madurai, Mar.1995
8. Workshop on Database Access and Retrieval, Madurai Kamaraj University, Madurai, Oct.18, 1995
9. Symposium on Modern Trends in Chemistry, Vivekananda College, Thiruvudagam, Dec.13&14, 1995
10. Inservice Training to PG Chemistry Teachers, VHNSN College, Virudhunagar, Dec.26-30, 1995
11. UGC Conference on Recent Advances in Physical Organic Chemistry, VHNSN College, Virudhunagar, Mar.29, 1996
12. Seminar on Marine Corrosion and its Control, CMFRI, Mandapam, June 7&8, 1996
13. Satellite Symposium on Current Trends in Photophysics and Photochemistry, Madurai Kamaraj University, Madurai, Aug.5&6 1996
14. Seminar on Electrochemical Technology, Salt Department, Tuticorin, Aug.8, 1996
15. Refresher Course on anodizing of aluminium and its alloys, CECRI, Karaikudi, Jan 1998.
16. Workshop on MS Office, CECRI, Karaikudi, Sep.1998

17. 6th International Symposium on Advances in Electrochemical Science and Technology, Chennai, Nov.1998
18. Workshop on Total Quality Management and ISO 9000, CECRI, Karaikudi, 1999
19. Workshop on Role of Hindi as official language, CECRI, Karaikudi, 2000
20. National Symposium on Electrochemical Science and Technology, Bangalore, July 2000
21. 10th National Convention of Electrochemists, Karaikudi, April 2001
22. Seminar on Electro Organic Synthesis, CECRI, Karaikudi, May 2001
23. Seminar on Electrochemical Instrumentation, CECRI, Karaikudi, Feb.2002
24. Workshop on Recent trends in Industrial Electroplating and Metal Finishing, CIT, Coimbatore, June 2002 .
25. Workshop on Recent trends in Industrial Metal Finishing, CECRI, Karaikudi, July 2002.
26. Workshop on Recent Advances in Electrometallurgy, CECRI, Karaikudi, July 2002.
27. Seventh International Symposium on Electrochemical Science and Technology, Chennai, Nov.2002
28. Training Programme on Science Direct, CECRI, Karaikudi, Dec.2002.
29. Fifth Indo-German Seminar on Chemical Modification of surfaces and electrocatalysis, Karaikudi, Jan.2003.
30. Workshop on Communicative Hindi, Karaikudi, September 2003.
31. University-Industry Linkage Seminar on Membrane Technology Salem, March 11, 2005
32. One day Orientation programme for College Teachers on Environmental Education, Salem, March 15, 2005.
33. National Seminar on Recent Advances in Nanoscience and Technology (RANSAT-2005), Salem, 29-30 September 2005.
34. National Conference on Recent Advances in Chemistry (RAC-2007), Periyar University, Salem, March 1-2,2007.

35. International Conference on Nanomaterials and their Applications (ICNA-2007), NIT, Trichy, February 2007.
36. National Seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University, Karaikudi , June 2007
37. National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Periyar University, Salem, December 13-14,2007.
38. National Conference on recent Advances in Metalloorganic Chemistry (RAMC-2008), Periyar University, Salem, October, 2008.
39. Seminar on Recent Advances in chemical Sciences (RACS-2009), Periyar University, Salem, March 2009.
40. International Conference on Advancement of Nanoscience and Nanotechnology, March 2010. Alagappa University, Karaikudi.
41. National Seminar on new Frontiers in Chemistry, Annamalai University, Mar.2010.
42. National conference on recent advances in electroanalytical techniques. Gandhigram Rural Institute, Gandhigram. February 2010.
43. National Seminar on new Frontiers in Chemistry, Annamalai University, Mar.2010
44. Seminar on Role of Periyar University in Social Welfare and Higher Education, Salem, July 2010.
45. All India Congress on Education, New Delhi, Aug.2010.
46. Training Programme on Climate Change and Carbon Mitigation, Dehradun, Sep.2010.
47. National Seminar on Emerging trends in Nanoscience, Alwarkurichi, Dec.2010
48. National Seminar on Frontiers in Organic Synthesis and Medicinal Chemistry Periyar University, Salem, Feb.2011.
49. State level seminar on Nanoscience and Nanotechnology, GAC, Thiruvannamalai, Aug.2011.
50. National Conference on Nanoscience and Nanotechnology, University of Madras, Chennai, Aug.2011.

51. National Seminar on Physical and Biomedical Applications of Nanotechnology, NSNANO-2011, Kollam, Oct. 2011.
52. Workshop on Open Source Drug Discovery, CECRI, Karaikudi, Dec.2011
53. 12th Tamil Science Congress on , Periyar University, Aug.23-25, 2012
54. International Seminar on Emerging Trends in Research, TBAK College, Keelakarai, April 12.2012
55. National Seminar on “Recent Trends in Advanced Materials”, ERK College, Dharmapuri, 5th Aug.2012
56. Workshop on “Applications of Radioisotopes in Chemical Sciences (ARCS-2012), Periyar University, 28th Sep.2012
57. National Seminar on “Recent Advances in Surface Science, Gandhigram Rural Institute, Gandhigram, 13,14 Feb.2013.
58. International Conference on Biological Inorganic Chemistry, Salem, 20-22 Feb.2013.
59. National Conference on Advanced Materials for the Emerging Technologies (CAMET-2013), Coimbatore, July 2013.
60. on “Recent Advances in Materials Science”RAMS-2013, Bharathiar College of Arts and Science, Attur, 6th Sep..2013

List of Publications

i) In Journals

No	Paper Title	Authors	Journal Name, Vol, Year	Page and IF
56	Formation and characterization of chitosan/TiO ₂ and its ability to apatite formation	V.Raj, M.Mumjitha	Electrochimica Acta	Under Revision (4.1)
55	Phytochemical screening, total phenolic contents and antioxidant activity of <i>Syzygium caryophyllatum</i> and <i>Syzygium densiflorum</i> '	R.Subramanian, P.Subbramaniyan, V.Raj	Journal of Biologically Active Products from Nature"	(In Press)
54	Application of Cobalt oxide nanostructured modified aluminium electrode for electrocatalytic oxidation of Guanine and Single Strand DNA	V.Raj, J.Silambarasan, P.Rajakumar	RSC Adv.	Accepted (2.6)
53	Formation and Surface Structural Features of Crystalline Ceramic Nanocomposite Coatings on Aluminium Using Lithium Sulphate with Silicate Additive..	M. Mubarak Ali, V. Raj.	Acta Metallurgica Sinica(English letters), 2014, 27 (2): 185-197	In press 0.5
52	Electrocatalytic determination of o-nitro benzaldehyde using tin nanorods modified aluminium electrode	V.Raj, J.Silambarasan, P.Rajakumar	J.EnvIRON.Sci	In Press (1.8)
51.	Phytochemical screening, total phenolics and antioxidant activity of two tropical medicinal plants"	R.Subramanian, P.Subbramaniyan, V.Raj	African J.Trop.Biomed.	In Press
50	A Comparative study on formation and charecterization of porous alumina and ceramic nanorods obtained from different electrolytes by anodization	V.Raj, M.Mumjitha	Mater.Sci. Eng. B179, (2013)	25-35 (1.8)
49	Hyaluronidase enzyme core-5-fluorouracil loaded chitosan-	M.Rajan and V.Raj	Int. J.Pharmaceutics, 453(2013)	514 (3.5)

	PEG-gelatin polymer nanocomposites as targetted and controlled drug delivery vehicles			
48	Formation and characterization of Chitosan-Polylactic acid-polyethylene glycol-gelatin nanoparticles. A novel system for controlled drug delivery	M.Rajan and V.Raj	Carbohydrate Polymers 98(2013)	951 (4.0)
47	Formation and surface characterization of nanostructured Al ₂ O ₃ -TiO ₂ coatings	Vairamuthu Raj and Mohamed Sirajudeen Mumjitha	Bull.Mater. Sci.	In press (0.6)
46	Improvement of Corrosion resistance of anodised aluminium surfaces	S.Karthikeyan, P.A.Jeeva, V.Raj , Deventharanath Ramkumar, N.Arivazhagan and S.Narayanan	J.Corrosion.Sci.Eng. 16(2013)	In press
45	Antioxidant activities of peltophorum pterocarpum flower extract	R.Subramanian, P.Subbramaniyan, V.Raj	SpringerPlus 2(2013)28	In press
44	Formation and characterization of ceramic nano composite crystalline coatings on aluminium by Anodization	M.Mubarak Ali, V.Raj	J.Mater.Sci.Technol..29 (2013)	595 (1.2)
43	Potential drug delivery applications of chitosan based nanomaterials	M.Rajan and V.Raj	Int. Rev. Chem. Eng. 5 (2013)	145 (6.4)
42	Encapsulation, characterisation and in-vitro release of anti-tuberculosis drug using chitosan – poly ethylene glycol nanoparticles	M.Rajan and V.Raj	Int J. Pharm. Pharmaceut. Sci. 4(2012)	255 (1.1)
41	Effect of plating time on growth of nanocrystalline Ni-P from sulphate/glycine bath by Electroless deposition method	N.Latha, M.Selvam, P.Manisankar and V.Raj	Bull. Mater. Sci. 36 (2013)	719 (0.6)
40	Defluoridation studies of drinking water using natural and zirconium impregnated clay mineral	M.Rajan, V.Guru Sankar, G.Alagumuthu and V.Raj	Chem.Res.Lett. 1(2012)	68-77 (NA)

39	Formation of nanoceramic coatings on aluminium for corrosion resistance applications	M.Mubarak Ali, V.Raj	Chem.Res.Lett. 1(2012)	10-17 (NA)
38	Formation of ceramic nanocomposite coatings on aluminium by anodization using magnesium sulphate with additives	M.Mubarak Ali, V.Raj	Trans Inst..Met. Fin.90 (2012)	215 (1.79)
37	Studies on electron transfer reactions: Oxidation of phenols and ring substituted phenols by heteropoly 11-tungstophosovanadate(V) in aqueous acidic medium	M. Vairalakshmi, V. Raj, P. Sami and K. Rajasekaran	Trans. Metal. Chem 36 (2011)	875 (1.1)
36.	Determination of some minerals and trace elements in two tropical medicinal plants	R.Subramanian, P. Subramaniyan, V.Raj	Asian Pacific J. Trop. Biomed. 2 (2012)	1-4 (0.4)
35	Fabrication of Ni nanorods and study of its magnetic properties	V.Raj , P.Rajakumar, J.Silambarasan	Materials Technology: Adv. Mater. Perform. 27(2012)	304 (0.6)
34	Synthesis and characterization of chromate conversion coatings on aluminium	M.Sherin Bhanu, V.Raj and M.Mubarak Ali	Res. J. Chem. Environ.	In press (0.64)
33.	Ortho phosphoric acid activated ananus comosus leaves carbon as an adsorbent for the removal of basic yellow 2: Kinetics and isotherm studies	R.Parimalam, V.Raj , P.Sivakumar	Asian J. Chem.25 (2013)	1331 (0.31)
32.	Double bypass Soxhlet apparatus for extraction of piperene from piper nigrum	R.Subramanian, P.Subbramaniyan, J.Noorul Ameen and V.Raj	Arabian J. Chem.	In Press (2.3)
31	Removal of acid green 25 from aqueous solution by adsorption	R.Parimalam, V.Raj , P.Sivakumar	J. Chem. 9-4 (2012)	1683-1698 (0.52)
30.	Structural and corrosion behaviour of nanocrystalline Ni-P on aluminium with heat treatment	N.Latha and V.Raj	Int. J. Chem. Appl 4-2(2012)	77-84 (NA)
29.	Synthesis and characterization of Electroless nanocrystalline Ni-P on aluminium	N.Latha, V.Raj , M.Selvam and P.Manisankar	Int. J. Chem. Sci. 10-1(2012)	479-489 (NA)
28.	Analysis of mineral and heavy metal levels in medicinal	R.Subramanian, S.Gayathri and V.Raj	Asian Pacific J.Trop. Biomed. 2-1 (2012)	S74-S78 (0.4)

	plants collected from local market			
27.	Chemical synthesis, characterization and properties of conducting copolymers of imidazole and pyridine	V. Raj, D Madheswari M. Mubarak Ali,	J. Appl. Polym. Sci. 124 (2012)	1649-1658 (1.4)
26.	Bath optimization and corrosion study of Ni-P on zincated aluminium from glycine bath	N.Latha and V.Raj	Asian J. Res. Chem. 4-12 (2011)	1898-1904 (NA)
25.	Determination of lead, manganese, copper, zinc, cadmium, nickel and chromium in tea leaves	B.Srividya, V.Raj and R.Subramanian	Int. J. Pharm. Pharmaceut. Sci. 3-4 (2011)	257-258 (1.1)
24.	Biochemical analysis and enzyme activities of tea leaves	B.Srividya, R.Subramanian, V.Raj	J. Indian Chem. Soc. 23-10 (2011)	01 (0.4)
23.	Determination of catechins and antioxidant activities of commercial green and black teas	B.Srividya, R.Subramanian, V.Raj	Asian J. Chem. 23 (2011)	4603 (0.31)
22	Adsorption isotherms, kinetics, thermodynamics and desorption studies of reactive orange 16 on activated carbon derived from Ananus comosus (L)	R.Parimalam, V.Raj, P.Sivakumar	J. Engg. Appl. Sci. 6 (2011)	14-26 (0.4)
21	Immersion plating of tin on aluminium by micro wave irradiation in acidic medium	M.Sherin Bhanu, V.Raj and M.Mubarak Ali	Asian J. Research Chem. 4(2011)	1726 (NA)
20	Corrosion inhibition of molybdate conversion coatings	M.Sherin Bhanu, V.Raj and M.Mubarak Ali	Asian J. Research Chem. 4 (2011)	1520 (NA)
19.	Synthesis and surface characterization of alumina-silica-zirconia nanocomposite Ceramic fibers on aluminium at room temperature,	M. Mubarak Ali and V. Raj,	Appl. Surf. Sci. 256 (2010)	3841 (2.1)
18.	Chemical synthesis and properties of poly (carbazole co-imidazole)	V. Raj, D Madheswari M. Mubarak Ali,	J.Appl.Polym. Sci. 117 (2010),	2824-2833 (1.4)
17.	Chemical Formation, Characterization and Properties of Polycarbazole	V. Raj, D Madheswari M. Mubarak Ali	J. Appl. Polym. Sci. 116 (2009)	147 (1.4)

16.	Effect of Voltammetric parameters on formation of highly ordered nanoporous structures	V. Raj and M. Mubarak Ali	Trans.Inst.Met.Fin.87 (2009)	272. (1.79)
15.	Formation of ceramic alumina nanocomposite coatings on aluminium for enhanced corrosion resistance	V. Raj and M. Mubarak Ali	J. Mater. Process. Technol. 209 (2009)	5341 (1.95)
14.	Synthesis, characterization and corrosion behaviour of oxide films on aluminium	V. Raj and M. Mubarak Ali,	J.Metall. Mater. Sci., 51 (2009)	61(NA)
13.	Guest-host interactions in the alkaline bleaching of triphenylmethane dyes catalysed by β -cyclodextrin,	V.Raj, A.Sarathi, T.Chandrakala, S.Dhanalakshmi, R.Sudha and K.Rajasekaran,	J.Chem.Sci. 121 (2009)	529 (1.3)
12.	Guest-host interactions in alkaline hydrolysis of phenylphenylacetates catalysed by β -cyclodextrin,	V.Raj and K.Rajasekaran,	J.Chem.Sci.120 (2008)	324 (1.3)
11.	Nickel coated aluminium electrode-A sensor for the Voltammetric analysis of crystal violet	V. Raj and M. Mubarak Ali	J.Metall.Mater.Sci. 50 (2008)	183 (NA)
10.	Effect of α -picoline and quinoline on DC and Pulse Plating of nickel directly on aluminium	S.Mohan and V.Raj	Trans.Inst.Met.Fin. 85, 2007	162 (1.79)
9.	Corrosion behaviour of DC and pulse gold deposits formed on aluminium-An impedance study	D.Kanagaraj, S.Mohan and V.Raj	Trans.Inst.Met.Fin.83, 2005	93 (1.79)
8.	Effect of additives on pulsed electrodeposition of copper	S.Mohan and V.Raj	Trans.Inst.Met..Fin.83, 2005	194 (1.79)
7.	Effect of sealing agents on the corrosion behaviour of anodized aluminium	V.Raj, S.Mohan and D.Kanagaraj	Trans.Inst.Met..Fin.81 (2003)	83 (1.79)
6.	Pulse anodising-An overview	V.Raj, M.P.Rajaram,G. Balasubramanian and D.Kanagaraj	Trans.Inst..Met.Fin.81 (2003)	108 (1.79)
5.	Effect of pulse frequency on pulse anodizing of AA1100	D.Kanagaraj, V.Raj, S.Vincent and	Bull.Electrochem.,17 (2001)	523 (0.4)

	aluminium alloy	S.Venkatakrishna Iyer		
4.	Pulse anodizing of AA1100 aluminium alloy in oxalic acid electrolyte	D.Kanagaraj, V.Raj , S.Vincent, B.Prasannakumar, A.Senthilkumar and S.Venkatakrishna Iyer	Bull.Electrochem. ,17(2001)	285 (0.4)
3.	Effect of addition agents on anodizing of aluminium and its alloys in sulphamic acid using pulse technique	D.Kanagaraj, S.Vincent, V.Raj and S.Venkatakrishna Iyer	J.Electrochem.Soc.India , 48 (1999	222 (NA)
2.	Evaluation of aluminium surface subjected to various surface treatments by electrochemical impedance spectroscopy	D.Kanagaraj, S.Mohan, N.G.Renganathan, V.Raj , S.Venkataramanan and S.Venkatakrishna Iyer	Bull.Electrochem. ,15(1999)	164 (0.4)
1.	Kinetics of addition of n-butylamine to 4'substituted 2-styrylpyridinium iodides	A.Shunmugasundaram, T.Lekshmana Thanulingam, V.Raj and A.Rajasekar,	Indian J.Chem. , 33A (1994)	417 (0.9)

In Proceedings

No	Paper Title	Authors	Journal Name, Vol, Year	Page
26	Gelatin-PEG coated modified Chitosan/ Hyaluronidase nanoparticles for Tumor-Targeted Drug delivery and controlled release	M.Rajan and V.Raj	National conference on Advanced Materials processing, Characterization, and application, PSN college of engineering and technology, Tirunelveli.	269-274
25	Structure and magnetic properties of Cobalt nanorods on Aluminium	P.Rajakumar, J. Silambarasan, and V.Raj	National conference on Advanced Materials processing, Characterization, and application, PSN college of engineering and technology, Tirunelveli	174 - 178
24	Enhanced Photocatalytic activity of TiO ₂ particles by Zinc doping	V. Raj and M. Mumjitha	National conference on Advanced Materials processing, Characterization, and application, PSN college of engineering and technology, Tirunelveli.	263-268
23	Removal of methylene blue through AAO membrane	V.Raj , R.Senbahavalli, P.Rajakumar and J.Silambarasan	National conference on Advanced Materials processing, Characterization, and application, PSN college of engineering and technology, Tirunelveli	258-262
22	Emerging Trends in Research in Chemistry	V.Raj	Proc.Int.Conf.Emerging Trends in Research, TBA College, Kelakarai	1-6
21	Nanoceramic coatings on aluminium	V.Raj	Proc.SPEC-2012	3-10
20.	Nanocrystalline alumina films for enhanced corrosion resistance (Best paper-II Prize)	V.Raj , S.Maheswari, M.Mumjitha and M.Mubarak Ali	Proc. NSNANO-2011	24-36
19.	Nanoporous AAO membranes as adsorbents for the removal of methylene blue (Best paper-III Prize)	V.Raj , R.Senbahavalli, J.Silambarasan and P.Rajakumar	Proc. NSNANO-2011	37-46
18.	Electrochemical fabrication and magnetic properties of	V.Raj , P.Rajakumar and J.Silambarasan	Proc. NSNANO-2011	47-57

	Ni nanorods			
17.	Role of hexavalent chromium in the inhibition of corrosion of aluminium alloys	M.Sherin Bhanu and V.Raj	Proc..State level Seminar on Recent Trends in Chemistry, Salem, March 2011	15-18
16.	Thin film of tin deposition on aluminium by Immersion plating in acidic medium	M.Sherin Bhanu and V.Raj	Proc.State level Seminar on Recent Trends in Chemistry, Salem, March 2011	38-41
15.	Nanometals and metal oxides-An Overview	V.Raj	Proc.National Seminar on Emerging Trends in Nanoscience, Alwarkurichi, Dec.2010	11-24
14.	Role of Chemists to the society and environmental sustainability	V.Raj	Proc. National Seminar on Role of Periyar University in Social welfare and Higher education, July 2010	
13.	Conducting polymers	V.Raj	Proc. National workshop on Current Trends in Advanced Polymer Composites, 2009	14-20
12.	Bio-Methanation of Sago Effluent	A.Rajaram, V.Raj and P.Manisankar	Proc.National Conference on Environmental Conservation Pilani, Sep.2006	295-299
11.	Development of Alumina Nano Filters for Environmental Separations	V.Raj and N.Latha	Proc.National Conference on Environmental Conservation Pilani, Sep.2006	33-37
10.	Corrosion Inhibition of Aluminium in Hydrochloric acid by Commercial Detergents	V.Raj and M.C.Pravitha	Proc.Sixteenth National Congress on Corrosion Control, Mangalore, Oct.2006	
9.	Corrosion inhibition of mild steel in NaCl by Nanocrystalline zinc oxide	N.Latha and V.Raj	Proc.Sixteenth National Congress on Corrosion Control, Mangalore, Oct.2006	
8.	Structural Properties of alumina films obtained from oxalic acid electrolyte	V.Raj and D.Kanagaraj	Proc.ISAEST –VII, 2002	H-44
7.	Formation of thick aluminium oxide films from chromic acid electrolyte	M.P.Rajaram, G.Balasubramanian V.Raj and D.Kanagaraj	Proc.ISAEST –VII, 2002	H-47
6.	Evaluation of sealing of anodized aluminium by potentiodynamic	V.Raj , S.Mohan and D.Kanagaraj	Proc.ISAEST –VII, 2002	H-41

	polarization studies			
5.	Surface characteristics of aluminium oxide films formed by pulse anodizing in oxalic acid electrolyte	D.Kanagaraj, V.Raj , S.Vincent, A.Senthilkumar and B.Prasannakumar	Proc.INSURE-2001	225
4.	Studies on anodic oxide coating of aluminium alloys in magnesium sulphate electrolyte	D.Kanagaraj, V.Raj , G.Balasubramanian and P.Rajendran	Proc.INSURE-2001	95
3.	Protective property of conductive polyaniline coating derived from its Dispersion	S.Karthikeyan,S.Shriram, S.Pitchumani,S.Mohan,D .Kanagaraj and V.Raj	Proc.Electrochem.Soc. 4(2001)	579.
2.	A comparative study of corrosion behaviour of DC and pulse anodized AA2024 alloy	S.Mohan,D.Kanagaraj, V. Raj ,S.Vincent,N.G.Reng anathan and S.Raman	Proc.Electrochem.Soc. 4(2001)	1109
1.	Evaluation of corrosion resistance behaviour of different sealing agents on anodized aluminium alloys by electrochemical impedance spectroscopy	D.Kanagaraj, S.Mohan, V.Raj , N.G.Renganathan, M.Kamalkumar and S.Venkatakrisna Iyer	Proc.Electrochem.Soc.4 (2000)	305

List of Patents

1. A novel method of pretreatment for direct electroplating of nickel, copper and gold on aluminium and its alloys.
D.Kanagaraj, R. Venkatachalam, S. Mohan and **V.Raj** (2000)
2. A novel method of inorganic colouring of anodized aluminium by chemical Deposition
D.Kanagaraj, M. Selvam and **V.Raj**, (1998)

List of Books

1. Research Manual for Chemists, V.Raj, Lambert Academic Publishers, Germany, **ISBN 978-3-8383-0318-5, 2010**
2. Surface Technology of Aluminium, V.Raj and V.Thangaraj, Lambert Academic Publishers, Germany, **ISBN 978-3-8433-9181-8, 2011**
3. Methods of Chemical Analysis, V.Raj and M.Senthil vadivu, Lambert Academic Publishers, **Germany, ISBN 978-3-8465-0112-2, 2011**
4. Conversion coatings on aluminium, V.Raj and M.Mubarak Ali, Lambert Academic Publishers, **Germany, ISBN 978-3-8484-8293-1, 2012**
5. Surface Properties of Chromate conversion coated aluminium, V.Raj, M.Mubarak Ali and K.Kokila Lambert Academic Publishers, **Germany, ISBN 978-3-659-10620-0, 2012**

Papers presented in International Conferences/Seminars

47. Preparation of parthenium based nano activated carbon via microwave induced $ZnCl_2$ activation for the removal of malachite green and reactive orange 30
R.Mohan Raj, P.Arul and V.Raj
International Conference on Chemistry in synergy with materials and biology,
Trichy, 10-11 Jan. 2014
46. Anodic Non-porous Alumina Coatings (ANPAC) with higher corrosion resistance fabricated from mixed sulphuric acid-glycerol electrolyte
R.Senbahavalli, S.Sangeetha and V.Raj
International Conference on Emerging Trends in Chemical Sciences, VIT, Vellore,
5-7 Dec.2013
45. Fabrication of Fe_3O_4 nanoparticles/graphite modified aluminium electrode for simultaneous determination of guanine and adenine
V.Raj, J.Silambarasan, P.Rajakumar and G.S.Ganesh
International Conference on Emerging Trends in Chemical Sciences, Vellore, 5-7
Dec.2013
44. Fabrication and electrochemical properties of polypyrrole/ TiO_2 nanocomposite coatings
M.Mumjitha, V.Raj
International Conference on Emerging Trends in Chemical Sciences, Vellore, 5-7
Dec.2013
43. Cisplatin-polyoxalate nanoparticles for tumor targeted drug delivery vehicle and controlled release
M.Rajan, B.Priya and **V.Raj**
International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013 (PP-263)
42. Fabrication and electrochemical properties of polypyrrole/Ag/ TiO_2 nanocomposite coatings
M.Mumjitha and **V.Raj**
International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013 (PP-250)
41. Formation, corrosion and structural studies of NC-Ni-P deposits from sodium acetate bath.
N.Latha and **V.Raj**
International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013 (PP-217)
40. Green synthesis of gold nanoparticles using leaf extract of *Syzygium densiflorum*

- R.Subramanian, **V.Raj**, P.Subbramaniyan
International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013 (PP-134)
39. Electrocatalytic oxidation of guanine and DNA on aluminium electrode modified by cobalt hexacyanoferrate films.
J.Silambarasan, P.Rajakumar and **V.Raj**
International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013 (PP-092)
38. Development of well ordered nanoporous AAO membranes for environmental applications
R.Senbahavalli, **V.Raj**
International Conference on Biological Inorganic Chemistry, Salem, 20-22
Feb.2013, PP-056
37. Removal of crystal violet reactive dye using raw and activated extracted plant waste material as biosorbents
V.Raj, A.Raja, M.Rajan
International Conference on Emerging trends in Research, TBAK College, April 12, 2012.
36. Antioxidant activities of Syzygium Caryophylatom leaves extract
R.Subramanian and **V.Raj**
International symposium on Functional foods and health (ISFAH-2011), Periyar University, Salem, Nov.2011 (**Best paper award**)
35. Inhibition of oxidation of polyphenoloxidase (browning of apple),
V.Raj and P.Sobhana
International seminar on life science, Erode, Aug.2011, p-15
34. Synthesis and surface characterization of nanoceramic coatings on aluminium
M.Mubarak Ali and **V.Raj**
64th Annual Technical Meeting of the Indian Institute of Metals, IISc, Bangalore, 15-16 November, 2010
33. Effect of process parameters, surface characterization and electrochemical behaviour of chromate conversion coatings on aluminium
M.Sherin Banu, M.Mubarak Ali and **V.Raj**
64th Annual Technical Meeting of the Indian Institute of Metals, IISc, Bangalore, 15-16 November, 2010
32. Synthesis and surface characteristics of Nanocrystalline Ni-P Coatings.
N. Latha, **V. Raj**, M. Selvam, P. Manishankar.
International Conference on Advancement of Nanoscience and Nanotechnology, March 2010. Alagappa University, Karaikudi

31. Electrochemical Synthesis, Characterization and Properties of Aluminium Nanostructures.
V. Raj and R. Vimala
International Conference on Advancement of Nanoscience and Nanotechnology, March 2010. Alagappa University, Karaikudi
30. Synthesis and characterization of nanocrystalline conducting copolymer
V. Raj, D.Madheswari and M.Mubarak Ali
International Conference on Advancement of Nanoscience and Nanotechnology, March 2010. Alagappa University, Karaikudi
29. Corrosion resistance of ceramic nanocomposite coatings by anodic oxidation on aluminium,
M.Mubarak Ali and **V. Raj**
International Conference on Advancement of Nanoscience and Nanotechnology, March 2010. Alagappa University, Karaikudi
28. Biochemical analysis and antioxidant activities of green tea of South India origin
B.Srividya, R.Subramanian, P.Ponmurugan and **V.Raj**
International Conference on Biotechnology, Food and Bio Engineering- Emerging trends and future prospects, Thanjavur, Feb.2010
27. Synthesis and surface properties of ceramic alumina nanocomposite coatings by high temperature electrolytic oxidation-A cost effective approach
M.Mubarak Ali and **V.Raj**
International workshop on Self propagating high Temperature synthesis, Bangalore, November 2008
26. Investigation of surface morphology and composition of ultra thick and hard ceramic nanocomposite coatings on aluminium,
V.Raj and M.Mubarak Ali
International conference on Smart and Active Materials (ICASM-2009) Madurai, January 2009
25. Fabrication of alumina nanostructures by anodization of aluminium in sulphuric acid
V.Raj and M.Mubarak Ali
International conference on Smart and Active Materials (ICASM-2009) Madurai, January 2009
24. Mitigation of Corrosion of aluminium by chromate conversion coatings
V.Raj, M.Sherin Banu and M.Mubarak Ali
International conference on Smart and Active Materials(ICASM-2009) Madurai, January 2009.

23. Immersion deposition of trivalent chromium for corrosion protection of aluminium-
A smart alternative to hexavalent chromate coating
V.Raj, M.Sherin Banu and M.Mubarak Ali
International conference on Smart and Active Materials(ICASM-2009) Madurai,
January 2009.
22. Corrosion resistance of ultra hard ceramic nanocomposite coatings by anodic
oxidation on aluminium
V.Raj and M.Mubarak Ali
International Conference on multifunctional oxide materials (ICMOM-2009),
Shimla, April 2009.
21. Determination of elements in milk samples by cyclic voltammetry using modified
aluminium electrode
M.Mubarak Ali and **V.Raj**
International conference on Materials Science Research and Nanotechnology,
Kodaikanal, February, 2008
20. Effect of surfactants on Electroless deposition of nickel on aluminium N.Latha and
V.Raj
International Conference on Nanoscience and Technology, Madras, July 2007
19. Synthesis and characterization of nanocrystalline nickel by electroless deposition
N.Latha and **V.Raj**
International Conference on Nanomaterials and their Applications (ICNA-2007),
NIT, Trichy, February 2007.
18. Synthesis and characterization of nanocrystalline nickel by immersion deposition
V.Raj and S.Ramachandran
International Conference on Nanomaterials and their Applications (ICNA-2007),
NIT, Trichy, February 2007.
17. Synthesis and characteristics of nanocrystalline Nickel by Pulse Electrodeposition
V.Raj
International Conference on Nanoscience and Nanotechnology, **Chennai**, August
2006.
16. Synthesis of Nanocrystalline Nickel by Electroless Deposition
V.Raj and N.Latha
International Conference on Nanoscience and Nanotechnology,
Chennai, August 2006.
15. Corrosion behaviour of DC and Pulse gold electrodeposits
on aluminium alloys
S.Mohan and **V.Raj**
International Conference on Surface Finishing, ISRO, Bangalore, August 2004.

14. Effect of α -picoline and quinoline on DC and pulse plating of nickel directly on aluminium
V.Raj and S.Mohan
International Conference on Surface Finishing, ISRO, Bangalore, August 2004.
13. Studies on electropolishing of stainless steel
S.Mohan, **V.Raj** and M.Balaguru
International Conference on Surface Finishing, ISRO, Bangalore, August 2004.
12. Corrosion behaviour of poly *ortho*- toluidine(POT) coated anodized aluminium
V.Raj and S.Mohan
International Conference on Surface Finishing, ISRO, Bangalore, August 2004.
11. In-situ formation of composite polyaniline-alumina films on aluminium
V.Raj, D.Kanagaraj and S.Mohan
ICMAT Symposium, Singapore, July 2003.
10. In-situ formation of poly N-methyl pyrrole on modified aluminium surface
K.Rachel Shanthini, C.Sivakumar, D.Kanagaraj, S.Mohan, **V.Raj** and T.Vasudevan
Fifth Indo-German Seminar on Chemical Modification of surfaces and electrocatalysis, Karaikudi, Jan.2003.
9. In-situ formation of coloured alumina films on aluminium
V.Raj and D.Kanagaraj
International Conference and Exhibition on Electroplating and Metal Finishing (Asia Interfinish 2002), New Delhi, Nov.2002
8. Direct plating of gold on aluminium using direct and pulse current:Corrosion studies
S.Mohan, **V.Raj** and D.Kanagaraj
International Conference and Exhibition on Electroplating and Metal Finishing (Asia Interfinish 2002), New Delhi, Nov.2002
7. Effect of addition agents on direct nickel electrodeposition on aluminium alloy: A comparative study of DC and pulse plating
V.Raj, D.Kanagaraj and S.Mohan
International Conference and Exhibition on Electroplating and Metal Finishing (Asia Interfinish 2002), New Delhi, Nov.2002
6. Studies on chemical polishing of aluminium in phosphoric acid with and without addition agents
A.Nirmal Kumar, J.F.John, **V.Raj**, S.Mohan and D.Kanagaraj
International Conference and Exhibition on Electroplating and Metal Finishing (Asia Interfinish 2002), New Delhi, Nov.2002
5. Pulse electropolishing of aluminium alloys

V.Raj, S.Mohan and D.Kanagaraj
International Conference and Exhibition on Electroplating and Metal Finishing (Asia Interfinish 2002), New Delhi, Nov.2002

4. Influence of polyaniline blende on protection of anodized aluminium surface
S.Karthikeyan, S.Shriram, S.Pitchumani, S.Mohan, D.Kanagaraj and **V.Raj**
201st Electrochemical Society Meeting, Philadelphia, May 2002.
3. Growth kinetics of anodic aluminium oxide films formed in sulphamic acid
D.Kanagaraj, **V.Raj**, M.P.Rajaram and G.Balasubramanian
200th Electrochemical Society Meeting, Sanfrancisco, Sep.2001
2. Colouring of anodized aluminium and its alloys by electroless technique
V.Raj, M.Selvam and D.Kanagaraj
6th International Symposium on Advances in Electrochemical Science and Technology, Chennai, Nov.1998
1. Evaluation of anodized aluminium surface obtained from sulphamic acid using electrochemical impedance spectroscopy
D.Kanagaraj, S.Mohan, N.G.Renganathan, **V.Raj**, S.Venkataramanan and S.Venkatakrishna Iyer
6th International Symposium on Advances in Electrochemical Science and Technology, Chennai, Nov.1998

Papers presented in National Conferences/Seminars

79. Electrochemical Preparation of cobalt oxide nanoflowers on aluminium electrode for guanine sensing
V.Raj, J.Silambarasan, P.Rajakumar, G.S.Ganesh
National Conference on Advanced Materials for the Emerging Technologies (CAMET-2013), Coimbatore, July 2013.
78. P.Rajakumar, J.Silambarasan, and **V.Raj**
National Conference on Recent Advances in Surface Science, Ghandigram, Dhindugal, Feb 14-15, 2013
77. Fabrication and characterization of electrochemically deposited tin nanorods on Alumina template and its application for the determination of ortho nitro benzaldehyde
V.Raj , J.Silambarasan and P.Rajakumar
National Conference on Recent Advances in Surface Science, Ghandigram, Dhindugal, Feb 14- 15, 2013
76. Effect of plating time on growth of nanocrystalline Ni-P formed by Electroless deposition

- N.Latha and **V.Raj**
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-48
75. Antioxidant activities of *Shorea roxpurgii*
R.Subramanian, P.Subbiramaniyan and **V.Raj**
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-30
74. Electrochemical formation and characterization of ordered nickel nanostructures
V.Raj, P.Rajakumar and J.Silambarasan
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-29
73. Determination of o-nitrophenol using modified aluminium electrode by cyclic voltammetry
V.Raj, J.Silambarasan and P.Rajakumar
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-28
72. Development of anti tuberculosis drug using chitosan-polyethylene glycol polymer by invitro analysis
M.Rajan and **V.Raj**
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-23
71. Formation of TiO₂ nanoparticles by rapid anodization
M.Mumjitha and **V.Raj**
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-22
70. Removal of methylene blue using alumina nanotubes as adsorbents
R.Shenbahavalli, P.Rajakumar, J.Silambarasan and **V.Raj**
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-21
69. Role of rapid anodization in synthesis of titanium oxide nanoparticles
M.Mumjitha and **V.Raj**
12th Tamil Science Congress, Periyar University, 23-25 Aug.2012. Chem-10
68. Electrochemical synthesis of nanostructured alumina/ZnO and its applications as biosensor for the voltammetric determination of polyphenols
V.Raj, J.Silambarasan, T.Palvannan, and K.Balan
National Seminar on Enzymes and Biocatalysis. The versatile reactors: Current and future perspectives (NSEB 2012), Periyar University, Salem, Jan.2012
67. An innovative approach of fluoride removal using zirconium (IV) impregnated bioadsorbent
M.Rajan, **V.Raj** and G.Alagumuthu
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66. Electrochemical fabrication and magnetic properties of Ni nanorods
V.Raj, P.Rajakumar and J.Silambarasan
National Seminar on Physical and Biomedical Applications of Nanotechnology,
NSNANO-2011, Kollam, Oct. 2011.
65. Formation and characterization of alumina-titania nanocomposite coatings by electrolytic oxidation of aluminium,
V.Raj, M.Mumjitha and M.Mubarak Ali
National Conference on Nanoscience and Nanotechnology, Chennai, Aug.2011 PP-52
64. Electrochemical formation and characterization of tin nanobricks using AAO on aluminium,
V.Raj, P.Rajakumar and J.Silambarasan
National Conference on Nanoscience and nanotechnology, Chennai, Aug.2011 PP-53
63. Formation and characterization of nanocrystalline alumina films from LiSO_4 electrolyte
V.Raj and R.Vimala
Second National Conference on Multifunctional nanomaterials and Nanocomposites, Coimbatore, March 2011, OP-11
62. Ananas comosus (L) activated carbon as biosorbent for the effective removal of basic dye from aqueous solution: Kinetics and Equilibrium studies
R.Parimalam, **V.Raj** and P.Sivakumar
National seminar on Nanomaterials and applications, Coimbatore, May 2011
61. Electrochemical formation and characterization of ordered arrays of Ni nanostructures
V.Raj, P.Rajakumar and J.Silambarasan
Second National Conference on Multifunctional nanomaterials and Nanocomposites, Coimbatore, March 2011, P-4
60. A simple and novel route to synthesize SnO_2 nanorods
P.Sumathi and **V.Raj**
Second National Conference on Multifunctional nanomaterials and Nanocomposites, Coimbatore, March 2011, P-23
59. Electrochemical synthesis and characterization of nanocomposite coatings
V.Raj, M.Mumjitha and J.Vasuki
Second National Conference on Multifunctional nanomaterials and Nanocomposites, Coimbatore, March 2011, OP-11

58. Development of ordered nanoporous alumina membranes for medical applications.
V.Raj, P.Rajakumar, J.Silambarasan and M.Mubarak Ali
National Seminar on Frontiers in Organic Synthesis and Medicinal Chemistry
Salem, Feb.2011
57. Antioxidant properties and polyphenol content of *Peltophorum Pterocarpum* flower extracts
P.Subbramaniyan, R.Subramanian, J.Noorul Ameen and **V.Raj**
National Seminar on Frontiers in Organic Synthesis and Medicinal Chemistry
Salem, Feb.2011
56. Phenolic content and enzyme activities of Tea leaves
B.Srividhya, R.Subramanian and **V.Raj**
National Seminar on Frontiers in Organic Synthesis and Medicinal Chemistry
Salem, Feb.2011
55. Nanometals and metal oxides – An Overview
V.Raj
National Seminar on Emerging trends in Nanoscience, Alwarkurichi, Dec.2010
54. Synthesis and surface characteristics of nanocrystalline Ni-P on aluminium by electroless deposition ,
N.Latha and **V.Raj**,
National Seminar on new Frontiers in Chemistry, Annamalai University, Mar.2010
53. Nanocrystalline Stannous Oxide as Inhibitor for Corrosion of Aluminium in Hydrochloric Acid.
V. Raj and P.Sumathi
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Gandhigram Rural Institute, Gandhigram. February 2010.
52. Corrosion inhibition of aluminium in nitric acid by extract of *azadrachta indica*
V.Raj and M.Senthil vadivu
National conference on recent advances in electroanalytical techniques.
Gandhigram Rural Institute, Gandhigram. February 2010
51. Electroless deposition of nanocrystalline Ni-P on aluminium
N.Latha, **V.Raj**, M.Selvam, P.Manisankar
Ninth Tamil Science Congress, Alagappa University, Karaikudi, Dec. 2009.
50. Fabrication of alumina nanostructures by anodization of aluminium in sulphuric acid
V.Raj and M.Mubarak Ali
National Conference on Recent Advances in Metalloorganic Chemistry (RAMC-2007), Salem, October 2008.

49. Mitigation of corrosion of aluminium by chromate conversion coatings
V.Raj and M.Mubarak Ali
National Conference on Recent Advances in Metalloorganic Chemistry (RAMC-2007), Salem, October 2008.
48. Surface structural morphological features of electroless deposited Ni-P on aluminium
N.Latha and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
47. Bright surface finishing of aluminium by chemical polishing
V.Raj and A.Kesavan
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
46. Determination of malachite green dye by cyclic voltammetry
M.Mubarak Ali, **V.Raj** and R.Murugan
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
45. Determination of crystal violet dye by cyclic voltammetry
M.Mubarak Ali, **V.Raj** and G.Praba
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
44. Electrochemical treatment of reactive black 5 using stainless steel anode
V.Sreeja, P.Manisankar and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
43. Nickel coated aluminium electrode-A novel sensor for the determination of dyes
M.Mubarak Ali and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
42. Electrodeposition of zinc from low temperature ionic liquids
C.Kala, M.Selvam and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
41. Studies on direct Electroless silver deposition on ABS plastic for electrocardiograph applications
A.Marimuthu, M.Selvam and **V.Raj**
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40. Vat dye as inhibitor for corrosion of aluminium in 1N sulphuric acid at various temperatures
M.Sherin banu, M.Mubarak Ali and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
39. Corrosion inhibition of aluminium by imidazole and polyimidazole in HCl
P.Shobana, S.Megala and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
38. Studies on immersion deposition of copper from chloride bath
V.Raj and S.Ramachandran
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
37. Poly (imidazole-co-8-hydroxy quinoline) as inhibitor for corrosion inhibition of aluminium in 5% HCl
S.Saranya, D.Madheswari and **V.Raj**
National Conference on Advances in Surface and Interface Analysis (ASIA-2007), Salem, December 2007.
36. Role of glycine on the formation and properties of nickel deposits on aluminium by electroless plating
N.Latha and **V.Raj**
Fourteenth National Convention of Electrochemists, Kalpakkam, December 2007.
35. Synthesis and Surface properties of electroless nickel
N.Latha and **V.Raj**
National Conference on Recent Advances in Textile and Electrochemical Sciences (RATES -2007), Karaikudi, June 2007
34. Vat dyes as inhibitors for corrosion of aluminium in HCl medium
M.Sherin banu and **V.Raj**
National Conference on Recent Advances in Textile and Electrochemical Sciences (RATES -2007), Karaikudi, June 2007.
33. Plant extract as inhibitor for mild steel corrosion 3% NaCl
M. Gnanasoundari, N.S.Nagarajan and **V.Raj**
National Conference on Recent Advances in Textile and Electrochemical Sciences (RATES -2007), Karaikudi, June 2007

32. Extracts of Nerium Oleander L as Corrosion Inhibitor for Aluminium in Basic medium
V.Raj and M.Sherin Banu
National Conference on Recent Advances in Chemistry (RAC-2007), Salem, March 2007.
31. Surface characteristics and corrosion behaviour of nickel formed by electroless deposition (RAC-2007)
V.Raj, N.Latha and P.Manisankar
National Conference on Recent Advances in Chemistry (RAC-2007), Salem, March 2007.
30. Corrosion inhibition of aluminium by turmeric powder in nitric acid
V.Raj, M.Senthil Vadivu and S.Megala
National Conference on Recent Advances in Chemistry (RAC-2007), Salem, March 2007.
29. Chemical synthesis and properties of conducting polycarbazole
V.Raj and D.Madheswari
National Conference on Recent Advances in Chemistry (RAC-2007), Salem, March 2007.
28. Synthesis of Nanocrystalline Nickel by Chemical Deposition
V.Raj, N.Latha and S.Ramachandran
National Seminar on Nanochemistry, Thirupathur, August 2006.
27. Synthesis of nanocrystalline SnO₂ metal oxides for biotechnology applications
N.Latha and **V.Raj**
National Seminar on Human perspectives of biotechnology, Salem, 11-12 February, 2006.
26. Synthesis and structural properties of nanocrystalline SnO₂ powder
N.Latha and **V.Raj**
National Seminar on Recent Advances in Materials Science, NSMS-2006, Salem, 16-17 February, 2006.
25. Fabrication of nanoporous alumina templates for the synthesis of nanomaterials
V.Raj, and S.Mohan and S.Saranya
National Seminar on Applied Research on Solid State Chemistry And Nanotechnology (NSASN – 2005), Annamalainagar, February 25 & 26, 2005
24. Electrochemical Synthesis of nanocrystalline Ni-Co alloy deposits
V.Raj, S.Mohan and P.PadmaPriya
National Seminar on Applied Research On Solid State Chemistry And Nanotechnology (NSASN – 2005), Annamalainagar, February 25 & 26, 2005

23. Fabrication of coloured titanium oxide nanofilms
V.Raj and S.Mohan,
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22. Synthesis and structural properties of polyaniline-alumina nanocomposite coatings
S.Saranya **V.Raj** and S.Mohan,
National Seminar on Recent Advances in Nanoscience and Technology (RANSAT-2005), Salem, 29-30 September 2005 (OP-28).
21. Electrochemical formation of copper nanowires on aluminium
V.Raj and S.Mohan,
National Seminar on Recent Advances in Nanoscience and Technology (RANSAT-2005), Salem, 29-30 September 2005. (OP-28)
20. Corrosion behaviour of DC and pulse gold deposits formed by direct gold plating on aluminium-An impedance study
D.Kanagaraj, S.Mohan and **V.Raj**
10th National Convention of Electrochemists, Karaikudi, April 2001.
19. Effect of sealing agents on corrosion behaviour of aluminium oxide films
D.Kanagaraj, S.Mohan, **V.Raj**, N.G.Renganathan, S.Raman and B.Ganes Kesari, 10th
National Convention of Electrochemists, Karaikudi, April 2001
18. Kinetics of growth of anodic aluminium oxide films in sulphamic acid electrolyte
D.Kanagaraj, **V.Raj**, M.P.Rajaram and G.Balasubramanian
10th National Convention of Electrochemists, Karaikudi, April 2001
17. Anodising of aluminium using potentiostatic pulses
S.Vincent, D.Kanagaraj, **V.Raj** and S.Venkatakrishna Iyer
10th National Convention of Electrochemists, Karaikudi, April 2001
16. A comparative study of corrosion behaviour of DC and pulse gold electrodeposits on aluminium
D.Kanagaraj, R.Venkatachalam, S.Mohan, **V.Raj** and M.Kamalkumar
10th National seminar on Corrosion Control, Madurai, Sep.2000
15. Corrosion study of pulse anodized aluminium alloy sealed with various sealing solutions
D.Kanagaraj, S.Mohan, **V.Raj**, N.G.Renganathan, M.Kamalkumar and
S.Venkatakrishna Iyer
10th National seminar on Corrosion Control, Madurai, Sep.2000
14. Effect of pulse frequency on pulse anodizing of AA1100 aluminium alloy
D.Kanagaraj, **V.Raj**, S.Vincent and S.Venkatakrishna Iyer

- National Symposium on Electrochemical Science and Technology, Bangalore, July 2000
13. Growth kinetics of porous oxide film formed by anodic oxidation of aluminium and its alloys in oxalic acid
D.Kanagaraj, **V.Raj**, B.Prasannakumar and A.Senthilkumar
Seminar on Recent Advances in Reaction Mechanism, Virudhunagar, Mar.2000
 12. Pulse anodizing of AA1100 aluminium alloy in oxalic acid electrolyte
D.Kanagaraj, **V.Raj**, S.Vincent, B.Prasannakumar, A.Senthilkumar and S.Venkatakrishna Iyer,
Intercolleage Seminar on Chemical Engineering, Annamalainagar, Mar.2000
 11. Comparative study of corrosion behaviour of DC and pulse anodized and sealed aluminium alloy using electrochemical impedance spectroscopy
D.Kanagaraj, S.Mohan, **V.Raj**, N.G.Renganathan, J.Srisudersan and S.Venkatakrishna Iyer
9th National Seminar on Corrosion and its Control, Goa, Sep.1999
 10. Impedance study of sealing of anodized aluminium alloys
D.Kanagaraj, S.Mohan, **V.Raj**, N.G.Renganathan, J.Srisudersan and S.Venkatakrishna Iyer
9th National Seminar on Corrosion and its Control, Goa, Sep.1999
 9. Effect of substituents on cyclic voltammetric cathodic peak potentials of para-substituted β -methyl β -nitrostyrenes
A.Shunmugasundaram, T.Lekshmana Thanulingam, R.Murugesan, **V.Raj** and P.Manisankar
Conference on Recent Advances in Physical Organic Chemistry, Virudhunagar, Mar.1996
 8. Kinetics of oxidation of meta- and para- substituted phenols by heteropolytungstovanado(V) phosphate
V.Raj, P.Sami, K.Rajasekaran and A.Shunmugasundaram
14th Annual Conference of ICC, Bombay, Dec.1995
 7. Charge transfer interaction of 4,substituted 2-styrylquinolines: Correlation of ¹H NMR chemical shifts
A.Shunmugasundaram, **V.Raj**, K.Kamaraj and K.Rajasekaran
14th Annual Conference of ICC, Bombay, Dec.1995
 6. Catalysis of the alkaline fading of malachite green by β -cyclodextrin
V.Raj, K.Rajasekaran and A.Shunmugasundaram
UGC-DRS National Seminar on Trends in Dynamic and Structural Studies, Madurai, Mar.1995

5. Effect of β -cyclodextrin on alkaline fading of rosaniline
V.Raj, A.Shunmugasundaram and K.Rajasekaran
31st Annual Convention of Chemists, Varanasi, Dec.1994
4. Effect of β -cyclodextrin on alkaline hydrolysis of phenylphenylacetates
V.Raj and K.Rajasekaran
13th Annual Conference of ICC, Jammu, Oct.1994
3. Charge transfer interaction of dibenzoylacetylene with various 3- and 4-substituted pyridines
V.Raj, T.Lekshmana Thanulingam, K.Rajasekaran and A.Shunmugasundaram
13th Annual Conference of ICC, Jammu, Oct.1994.
2. Charge transfer interaction of dimethylacetylene dicarboxylate with various substituted pyridines
A.Shunmugasundaram, S. Vinayagamoorthy, **V.Raj** and T.Lekshmana Thanulingam
12th Annual Conference of ICC, Warangal, Dec.1993.
1. Effect of β -cyclodextrin on hydrolysis of benzenesulphonyl chlorides
K.Rajasekaran, **V.Raj** and A.Shunmugasundaram
11th Annual Conference of Indian Council of Chemists, Muzaffarpur,
Mar.1993.

List of PDFs working -1 Dr.M.Rajan, Dr.Kothari UGC Post Doctoral Fellow

List of Ph.D. Scholars guiding/guided

S. No	Name of the scholar	Title of the thesis	Name of the University	Year of submission/ registration
1	N.Latha	Synthesis and characterization of nanocrystalline nickel on aluminium by Electroless Deposition	Periyar	Awarded Feb 2012
2	D. Madheswari	Synthesis and characterization of polymers	Periyar	Awarded Sep 2012
3	M. Sherin banu	Studies on corrosion behvaiour of various surface treated aluminium	Periyar	Awarded 03.08.2012
4	M. Mubarak Ali	Synthesis and characterization of ceramic nanocomposite coatings on aluminium	Periyar	Awarded Oct.2011
5	P. Subbramaniyan	Biosynthesis of silver nanoparticles from plant extracts	Periyar	Awarded May.2013
6	R. Subramanian	Phytochemistry, biological studies and biosynthesis of metal nanoparticles	Periyar	Awarded May 2013
7	R.Parimalam	Removal of metals from industrial waste water	Periyar	Viva May 2013
8	B.Srividhya	Pharmacological studies of green and black teas of Indian Origin	Periyar	Viva May 2013

9.	J.Silambarasan (SRF-CSIR))	Development of Nanobiosensors using modified aluminium electrodes	Periyar	2009 doing
10	P.Rajakumar(SRF-CSIR Project)	Fabrication and characterization of Metal Nanostructures	Periyar	2010 doing
11	M.Mumjitha (SRF-INSPIRE)	Synthesis and characterization of metal oxide nanostructures	Periyar	2011 doing
12.	R.Senbahavalli (SRF-RGNF)	Nanomaterials	Periyar	2011 doing
13.	G.S. Ganesh	Synthesis and properties of nanoparticles	Periyar	2013 doing
14.	R.Mohanraj	Removal of fluoride ions using activated carbon	Periyar	2013, doing
15	G.Prabha	Synthesis, characterization and applications of nanoparticles	Periyar	2013, doing
16	A.Raja	Synthesis and characterization of nanomaterials	Periyar	2013, doing

List of M.Phil. Scholars guided/guiding

S. No	Name of the scholar	Title of the thesis	Name of the University	Month/Year
1	Manikandan	Studies on brush anodizing of aluminium in sulphamic acid	MKU	Sep.2004
2	M.C.Pravitha	Corrosion inhibition of aluminium by commercial detergents	Periyar	Sep.2006
3	N. Kavitha		Periyar	2006
4	G. Vijayalakshmi		Periyar	2006
5	R. Rajasekar		Periyar	2006
6.	Daisy Rani		Periyar	2010
7	R. Vijaya	Study on physiochemical characteristics of soil including macro and micro nutrients	Periyar	2007
8	A. Marimuthu	Studies on direct electroless silver deposition on ABS plastic for electrocardiograph applications	Alagappa	Dec. 2007
9	C. Kala	Studies on zinc plating from low temperature molten salt	Alagappa	Dec. 2007
10	S. Ramachandran	Studies on immersion deposition of copper on aluminium from cubric chloride bath	Periyar	Dec. 2007
11	V. Sreeja	Electrochemical destruction of	Periyar	Sep.2007

		reactive dyes using stainless steel anode		
12	T. Thiruselvam	Studies on electrodeposition of metals along with composite particles and their characterization	Periyar	Dec.2009
13	M. Revathi	Characterization of electronic industry wastes and recovery of valuables by electrochemical processes	Periyar	Sep.2007
14	G. Prabha	Studies on electrochemical behaviour of crystal violet	Periyar	Dec.2007
15	R. Murugan	Studies on electrochemical behaviour of malachite green	Periyar	Dec.2007
16	S. Saranya	Poly(imidazole-10-8-hydroxy quinoline) as inhibitor for corrosion inhibition of aluminium in 5% hydrochloric acid	Periyar	Aug.2007
17	K. Sivagami	Corrosion inhibition of aluminium by rare earth chlorides	Periyar	Oct.2007
18	S. Savitha	Studies on the corrosion behavior of Ti, Ta and Ti-Ta alloys in sulphuric acid	Periyar	Nov.2007
19	K.Kokila	Synthesis and characterization of	Periyar	Sep.2007

		chromate conversion coatings on aluminium		
20	R. Ramaraj	Application of solid fertilizers from salt pans to magnesium demanding crops like green chillies	VMU	2008
21	K. Vijayarani	Electrochemical oxidation of aromatic primary alcohols using N-oxy hydroxide anode	Periyar	2008
22	Vanitha bharathi	Studies on corrosion inhibition of aluminium in sulphamic acid	MKU	Dec.2008
23	Manimangai	Effect of surfactants on immersion deposition of copper	MKU	Dec..2008
24	S. Megala	Determination of chromium in milk by differential pulse anodic stripping voltammetry using modified aluminium electrode	Periyar	Sep.2008
25	R. Nalini	Synthesis and antimicrobial investigation of some quinolines	Periyar	Sep.2008
26	P. Shobana	Studies on kinetics of inhibition of polyphenol oxidase in apple	Periyar	Sep.2008
27	R. Revathi	Synthesis, characterization and properties of strontium nanocrystals	Periyar	Sep.2009
28	P. Sumathi	Synthesis, characterization and	Periyar	Sep.2009

		properties of SnO ₂ nanorods		
29	R. Vimala	Electrochemical synthesis, characterization and properties of alumina nanostructures	Periyar	Sep. 2009
30	S. Ma heswari	Electrochemical synthesis and characteristics of nanocrystalline alumina films	Periyar	Sep..2009
31	P. Bhuvaneswari	Preparation and characterization of sulfamate, sulfonate salts and their metal complexes using hydrazine	PRIST	June 2009
32	C. Menaga	Nitration of phenatol under solvent free conditions using cubric nitrate loaded silica gel	PRIST	2009
33	M. Mumjitha	Synthesis, surface characterization and corrosion behavior of anodic coatings on aluminium	Periyar	Sep.2010
34	J.Noorul ameen	Investigation of anti-oxidant activities of <i>peltophorum pteocarpum</i> flowers	Periyar	Sep.2010
35	A. Kesavan	Studies on chemical polishing of aluminium in citrate bath	PRIST	Dec. 2010
36	R.Senbahavalli	Removal of methylene blue using nanoporous alumina coatings	Periyar	2011

37	R.Divya	Formation of nanoporous alumina coatings by anodization of aluminium from sulphuric acid – tartaric acid baths	Periyar	2011
38	H.Serina Bhanu	Antioxidant and antibacterial activities of leaf extracts of <i>Andrographis paniculata</i> nees	Periyar	2012
39	A. Raja	Removal of crystal violet dye from polluted water using natural and synthetic sorbents	Periyar	2012
40	Sathya Priya	Anodic Oxidation of Aluminium	Periyar	2013
41	Prabakaran	Removal of dyes using biosorbents	Periyar	2013
42	Priya	Chitosan nanoparticles crosslinked with natural polymers as controlled drug carriers	Periyar	doing
43	Selvaraj	Determination of amino acids using modified electrode as biosensors	Periyar	doing