LIST OF PUBLICATIONS

A. Papers published in International Journals:

1. Pulse anodizing – An overview
   V.Raj, M.P.Rajaram, G.Balasubramanian, S.Vincent and D.Kanagaraj

   A following paper was presented during 200\textsuperscript{th} Electrochemical Society Meeting held in September 2001 at San Francisco, CA, USA.

   S.Mohan, D.Kanagaraj, V.Raj, S.Vincent and N.G.Renganathan

B. Papers published in Indian Journals:

1. Instrument for measurement of drop/balance time of DME.
   S.Vincent and S.Birlasekaran

2. Pulse Anodising using microprocessor controlled Pulse unit
   D.Kanagaraj, V.L Narasimhan, S.Vincent, S.Chandrasekaran and S.Birlasekaran

3. A microprocessor and PC based system for generating and analysing voltammograms.

   V.L. Narasimham, S. Vincent and D. Kanagaraj.

5. Advantages of pulse anodising of Aluminium alloys.
   D. Kanagaraj, S. Vincent and V.L. Narasimhan.

6. Electrochemical process monitoring by microprocessor based data acquisition and processing unit.
   S. Vincent, C. Sridivyarajagopalan, A. Sunderraj, R. Ravi and J. Roop kumar.
   Bull. Electrochem., 6, 368 (1990)
7. Electropolishing of Stainless Steel Using Pulse Technique

8. Multipoint monitoring and control unit for cathodic protection of steel in concrete structure.

9. A Microprocessor based pulse unit for anodic treatment of stainless steel

9. Nickel Electroforming Using Pulse Current

10. An Inexpensive Electrochemical Monitor for Mercury

12. Pulse Electrosynthesis of Polyaniline

13. Effect of addition agents on Anodizing of Aluminium and its alloys in Sulphamic acid using Pulse technique

14. Automatic two state rapid charger for Lead acid batteries.

15. PC based amperometric analyser


17. Pulse anodizing of AA1100 aluminium alloy in oxalic acid electrolyte
D.Kanagaraj, S.Vincent and V.Raj
18. Cost Effective Potentiostatic control unit for recovery of silver from photographic fixer solution
N.Sathaiyan, M.Pandiammal, S.Vincent, P.Adaikkalam, K.V.Vekateswaran and Y.Mahadeva Iyer

19. A PC based quick charger for a VRLA cell
S.Vincent, P.G.Balakrishnan, M.Devasahayam and S.Venkatakrisnha Iyer,

20. A Computer controlled 2V discharging unit
S.Vincent, P.G.Balakrishnan, M.Devashahyam and S.V.K. Iyer

C. Presented in National and International Symposia

1. Hard anodizing of Aluminium using Microprocessor based pulse unit.
S.Vincent, D.kanagaraj, S.Birlasekaran and VL.Narasimhan
Aluminium Congress II held at Delhi during Jan 1987

2. Remote monitoring and control system for Cathodic Protection
S.Vincent, SP.Manoharan and K.Balakrishnan
(Presented in the National Congress on Anticorrosion Products and process held during 2-4, October, 1991 at IISc., Bangalore)

The following four papers were presented during the National Symposium on Instrumentation held during Nov. 26-29, 1991 at Cochin University.

3. Microcontroller based digital Tachometer
S. Vincent and Y. Mahadeva Iyer

4. Programmable High Power Pulse Controller
S. Vincent

5. Microcomputer based uninterrupted Power System
S. Vincent

6. 8086 based electrochemical deposition monitor
S. Vincent, R. Ravi, N. Palaniswamy and Y. Mahadeva Iyer
7. Pulse Electroforming of Cryogenic Engine
   S. John, M. Selvam, P. Veeramani, S. Vincent and PR. Thangavelu
   Annual Tech. meeting of Electrochem. Soc. India, July 19, 1994, IISc., Bangalore

8. Automatic control and remote monitoring system for Cathodic Protection.
   SP. Manoharan, S. Vincent and K. Balakrishnan
   Corrosion Asia conference, September 94, Singapore.

9. A pulse control card for DC power supply units.
   J. Kennedy, S. Vincent and Y. Mahadeva Iyer
   Regional seminar on trends in chemicals and electrochemical instrumentation. held Jan. 10 & 11, 1995 at CECRI.

Presented the following paper in Ninth National congress on Corrosion control organized by NCCI during September 16-18 1999 at Goa.

    M. Pandiammal, S. Vincent, K. Kumar & V. S. Muralidharan

Following two papers were presented during international conference on electrochemical power systems (ICEPS-2000) held at Chennai on 9-10 November 2000:

11. Computer controlled high pulse current charger for lead acid batteries.
    S. Vincent, S. Sekar, P. G. Balakrishnan & M. Devashayam

12. Artificial Neural network for a smart charging system development.
    S. Vincent, P. G. Balakrishnan & M. Devashayam

During international symposium INSURE-2001 held in February 2001 at Chennai the following paper was presented

13. Surface characteristics of al. oxide films formed by pulse anodizing in oxalic acid electrolyte
    D. Kanagaraj, V. Raj, S. Vincent and S. Venkatakrishna Iyer

During 10th national convention of electrochemists held in April 2001 at Karaikudi the following papers were presented:

14. A PC based control system for fast charging of Lead acid batteries.
S. Vincent, S. Sekar, P. G. Balakrishnan, M. Devasahayam and S. Venkatakrishna Iyer

15. Anodising of Aluminium using Potentiostatic pulses.

16. Computer controlled pulse console for semiconductor deposition
   S. Vincent, M. Pandiammal, P. Kamaraj, M. Jeyachandran

The following papers were presented during FAEST symposium at CECRI during 23 – 24\textsuperscript{th} July 2003.

17. Development of Virtual Instrumentation for a computer controlled pulse unit.
   S. Vincent, M. Pandiammal and M. Jeyachandran

18. Microcontroller Based Solar Tracking System
   S. Vincent, and M. Jeyachandran

The following papers were presented during 12\textsuperscript{th} National convention of Electrochemists, 18-19 Feb, 2005 held at Thiagaraja Engg. College, Madurai

19. PIC Microcontroller based on-line Monitoring and control system for the solar street lights
   T. Nithyakalyani, S. Visalakshi, B. Balamurugan, S. Vincent and M. Jeyachandran

20. PC based Multichannel Data Logging system for solar street light
   R. Bhuvana Priya, G. Vengateshwari, B. Balamurugan, S. Vincent and M. Jeyachandran

D. PATENTS

1. Improvement in or relating to Supervisory Control and Data Acquisition for Cathodic Protection. (No.912/DEL/91).

2. Improvement in or relating to Development of Biosensors based BOD/O2 meter. (N0- 352/Del/92).

3. Potential level controller (No. 169587 )

4. Mercury trace level analyser (No. 170787 )

5. Computer controlled pulse console for semiconductor plating. [N0. NF355/99].
6. Improvement in or relating to Pulse anodizing of Aluminium and its alloys using sulphamic acid electrolyte [No.194981]

7. Microcomputer controlled BOD/DO analyzer [No.552/97]