



## Arivuoli Dakshanamoorthy, CChem FRSC FICS

**Professor**  
**Crystal Growth Centre**  
**(UGC- National Facility for Crystal Growth)**  
**Anna University, Chennai- 600 025, India**

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**Email:** [arivuoli@annauniv.edu.in](mailto:arivuoli@annauniv.edu.in), [arivuoli@gmail.com](mailto:arivuoli@gmail.com)

### EDUCATION

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#### **Ph.D**

Crystal Growth Centre,  
Anna University  
Chennai

Graduated, 1988  
Highly Recommended

#### **MSc (Materials Science)**

College of Engineering, Guindy  
Anna University  
Chennai

Graduated, 1983  
Marks 76%  
Distinction

#### **BSc (Physics)**

Pachaiyappa's College for Men  
Thiruvallur District  
Kanchipuram

Graduated, 1980  
Marks 65%  
First Class

#### **PUC**

Madras Christian College  
Tambaram, Chennai

Graduated, 1977  
Maths, Physics, Chemistry  
Marks 84%

#### **SSLC**

St. Joseph's Higher Secondary School  
Chengalpattu  
State Board, Tamilnadu

Graduated, 1976  
Marks: 76%

## PROFILE

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### Research Activities

Prof.D. Arivuoli is working on the synthesis, and characterization of Nanomaterials and quantum dots of III-V and III-Nitride semiconductors for LED fabrication. He has done extensive work on growth of hollow crystals of Antimony and Bismuth based chalcogenides with a possible growth mechanism. He has worked a lot on the corrosion behavior of implant materials and tribological coating of hard materials. For the past two decades he is also working on synthesis of advanced nanomaterials for fuel cell applications.

He has established the state of the art Nanomechanical characterization laboratory (Rupees 1.55 crores) at crystal growth center, Anna University and 18 papers have been published and 6 PhD theses have been completed related to nanomechanical studies with the established facility.

His work related to nanoindentation is referred as 'Arivuoli et al model' (Polymer, 46 (2005) 4032-4040). He has also proposed a new thermodynamical model for the size and shape dependency of melting of nanoparticles.

### Biomaterials

1. Superabsorbent and super hydrophobic biodegradable polymer for application in personal disposable hygiene products (patent filed and published)
2. Biodegradable, highly flexible electro dialysis membrane for desalination and water treatment (patent applied)
3. Biodegradable and flexible semiconductor glucose biosensor (patent applied)
4. Ceramic incorporated cellulose composite electrospun material for bone implant
5. Cellulose based ferrofluid for cancer treatment

### Epitaxy of semiconductor materials

1. Thermodynamical modelling for the shape and size effect on melting of nanoparticles
2. Simulation studies of multi quantum well GaN/ InGaN based light emitting diodes for enhanced device performance
3. FTO thin films for transparent electrode, flexible transparent electrode in photovoltaic applications and Luminescent FZO thin films
4. Epitaxial growth of Germanium, Gallium Arsenide and Indium phosphide and their nanomechanical studies

### Nanomechanical studies

1. Nanomechanical studies of epitaxial layers of binary, ternary and quaternary alloys of GaN, InGaN, Ge, Si, InP, InGaAsP

### Advanced materials for Fuel cell applications

1. Synthesis of crystal facet tuned copper (II) oxide based catalysts for nitric oxide remediation and fuel cell application
2. Synthesis of structure tailored metal oxide nanostructures and their application in low temperature fuel cells

3. Nanoarchitectonic designing of novel electrocatalyst / catalyst support for fuel cells and its nanomechanical characteristics
4. Hard templating synthesis of nanoporous silicon carbide (SiC) with different structure and morphology
5. Synthesis and electrochemical studies of Pt/Graphene and Platinum Bimetallic electro catalysis for polymer electrolyte membrane fuel cell and direct methanol fuel cell.

#### **Tribological studies**

1. Micro and nanoindentation studies of some III-V, II-VI compound semiconductor alloys and III-N's compounds
2. Tribological properties and wear mechanism of hard coatings
3. In vitro studies of electrochemical and wear behaviour of surface modified orthopaedic titanium alloys

#### **Ferroelectric materials**

1. Growth of V VI VII group compound crystals from melt and chemical vapour transport and their characterisation
2. Studies on nucleation kinetics, growth and characterisation of nonlinear optical and ferroelectric single crystals
3. Studies on thiourea halides and chalcogenides of antimony and bismuth

### **CAREER HIGHLIGHTS**

S. No	Position	Organization/ University	Duration		Experience (in years & months)
			From	To	
1	Professor	Anna University	10-06-2007	Till date	12 years months
2	Assistant Professor	Anna University	06-06-1999	09-06-2007	8 years
3	Senior Lecturer	Anna University	14-4-1995	05-06-1999	4 years 2 months
4	Lecturer	Anna University	31-3-1989	13-04-1995	6 years 1 month
5	Research Associate (CSIR), Direct awardee, New Delhi	Anna University, Crystal Growth Centre	25-4-1988	30-03-1989	11 months
<b>Other duties as Administrator</b>					
1	Director	Crystal Growth Centre, Anna University	2009	2012	
2	Chairman	Anna University Sports Board, Anna University	2013	2015	
3	Head	Department of Physics, Anna University	2012	2013	
4	Deputy Chairman	Anna University Sports Board, Anna University	2008	2009	
5	Coordinator	e-Tender	2010	Till date	



## WORK EXPERIENCE

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**June 2007 - Till date**

**Professor, Crystal Growth Centre**

During this period I have handled many responsibilities as follows:

- The Director of Crystal Growth Centre (UGC National facility for Crystal Growth)
- The Head, Department of Physics (Administration of all Physics departments affiliated colleges of Anna University)
- The Chairman, Anna University Sports Board (Administration of all the 545 engineering colleges of Tamilnadu affiliated to Anna University)
- Coordinator, E-Tender (online tender process for purchase of equipment), Anna University, Chennai (since 2010 onwards)

**July 2012 – July 2015**

**Chairman, Anna University Sports Board**

Anna University

**Highlights:**

- There are 525 engineering colleges affiliated to Anna University.
- All the 525 colleges have been divided into 19 zones (each zone approximately consisting of 15 to 20 engineering colleges).
- Each zone will conduct sports and games and the winner and runner will participate in interzonal
- The Anna University team will be selected from the interzonal performance and the university team will participate in the All India interuniversity sports and games.
- I had to coordinate the participation of Anna University teams of both men and women in zonal, interzonal and in all India interuniversity tournaments
- During my tenure as Chairman, Anna University teams have won 19 interuniversity games and sports and organized 14 south zone/ All India tournaments at Anna University till July 2015 which is a record for Anna University Sports Board.


ANNA UNIVERSITY SPORTS BOARD ANNA UNIVERSITY, CHENNAI-25 ACHIEVEMENTS IN SOUTH ZONE INTER UNIVERSITY TOURNAMENTS 2013-14					ANNA UNIVERSITY SPORTS BOARD ANNA UNIVERSITY, CHENNAI-25 ACHIEVEMENTS IN SOUTH ZONE INTER UNIVERSITY TOURNAMENTS 2014-15					ANNA UNIVERSITY SPORTS BOARD ANNA UNIVERSITY, CHENNAI-25 Inter University Tournaments Organised by Anna University Sports Board SOUTH ZONE 2013-14			
S.No.	GAME	VENUE	DATE	POSITION	S.No.	GAME	VENUE	DATE	POSITION	S.No.	TOURNAMENT	VENUE	DATE
1.	Tennis (M)	Anna University, Chennai	11-16, September 2013	Third	1.	Hand Ball (M)	Paripyar University, Salem	29 September-03 October 2014	Second	1.	Tennis (M)	Anna University, Chennai	11-16, September 2013
2.	Chess (M & W)	SRM University, Chennai	12-16, October 2013	Third	2.	Table Tennis (M)	SRM University, Chennai	30 September-03 October 2014	Second	2.	Foot Ball (W)	J J College of Engineering & Technology, Trichy Anna University, Chennai	04-07, January 2014
3.	Kabaddi (M)	Acharya Nagarjuna University, Nagsaraya Nagar, Guntur	04-08, December 2013	Second	4.	Chess (M & W)	VIT University, Vellore	14-19, October 2014	Second	<b>ALL INDIA 2013-14</b>			
4.	Badminton (W)	Manipal University, Manipal	15-19, December 2013	Third	5.	Kho-Kho (W)	Indira Ganesan College of Engineering, Trichy Anna University, Chennai	18-20, October 2014	Second	3.	Power Lifting & Weight Lifting (M & W) & Best Physique(M)	Hindusthan College of Engineering & Technology, Trichy Anna University, Chennai	01-07, March 2014
5.	Table Tennis (M)	Jawaharlal Nehru Technological University, Mahabub	27-31, December 2013	First	6.	Kho-Kho (M)	Mallam Engineering College, Mallam Anna University, Chennai	26-30, December 2014	Second	<b>SOUTH ZONE 2014-15</b>			
6.	Table Tennis (W)	University of Madras, Chennai	25-28, January 2014	Fourth	7.	Football (M)	University of Calicut, Calicut	13-22, December 2014	Fourth	1.	Kho - Kho (W)	Indira Ganesan College of Engineering, Trichy Anna University, Chennai	19-20, October 2014
7.	Tennis (W)	University of Madras, Chennai	25-28, January 2014	Fourth	8.	Tennis (W)	Savitree University, Chennai	05-08, January 2015	Third	2.	Cricket (M)	J J College of Engineering & Technology, Trichy Anna University, Chennai	17-26, November 2014
<b>ALL INDIA INTER UNIVERSITY TOURNAMENTS 2013-14</b>					9.	Hockey (M)	National Engineering College, Kovilpatti, Anna University, Chennai	21-27, January 2015	Fourth	3.	Kho - Kho (W)	Mallam Engineering College, Mallam Anna University, Chennai	26-30, December 2014
1.	Aquatics (M & W) Diving (M)	Guru Nanak Dev University, Amritsar	25-29, October 2013	3 Gold Medals 1 Silver Medal 3 Bronze Medals Second Place in Diving (M)	10.	Tennis (M)	SRM University, Chennai	24-28, January 2015	Third	4.	Konguadu College of Engineering & Technology, Namakkal Anna University, Chennai	10-14, January 2015	1
2.	Kabaddi (M)	University of Mumbai, Mumbai	14-18, December 2013	Second	<b>ALL INDIA INTER UNIVERSITY TOURNAMENTS 2014-15</b>					5.	Hockey (M)	National Engineering College, Kovilpatti Anna University, Chennai	21-27, January 2015
3.	Ball Badminton (M)	Alagappa University, Karaikal	20-24, December 2013	Third	1.	Table Tennis (W)	SRM University, Chennai	04-06, October 2014	Third	6.	Cricket (W)	Konguadu College of Engineering & Technology, Namakkal Anna University, Chennai	02-08, March 2015
4.	Athletics (M & W)	Punjabi University, Patiala	23-28, December 2013	2 Gold Medals 2 Bronze Medals	2.	Aquatics (M & W)	Jain University, Bangalore	26-30, October 2014	3 Silver Medals 1 Bronze Medal	7.	Squash Racket (M)	Parisutham Institute of Technology & Science, Thanjavur Anna University, Chennai	16-17, February 2015
5.	Fencing (M)	Punjabi University, Patiala	02-05, January 2014	1 Silver Medal	3.	Ball Badminton(M)	SRM University, Chennai	20-24, December 2014	Second	8.	Squash Racket (W)	Parisutham Institute of Technology & Science, Thanjavur Anna University, Chennai	18-19, February 2015
6.	Fencing (W)	Punjabi University, Patiala	02-05, January 2014	1 Bronze Medal	4.	Ball Badminton(W)	B. S. Abdur Rahman University, Chennai	26-30, December 2014	Fourth	9.	Cricket (W)	Konguadu College of Engineering & Technology, Namakkal Anna University, Chennai	08-11, March 2015
7.	Boxing (M)	Banaras Hindu University, Varanasi	04-12, January 2014	1 Bronze Medal	5.	Air Pistol Shooting & 177 Air Rifle, Pump Sight (W)	Punjabi University, Patiala	02-06, January 2015	1 Gold Medal	10.	Taekwondo (M)	Prathyasha Institute of Technology & Management, Traveller Anna University, Chennai	13-15, March 2015
8.	Chess (M & W)	Mahatma Ptiusa Krishi Vidyapeeth, Raipur	13-17, January 2014	Second	6.	Best Physique (M)	Punjabi Technical University, Jalandhar	06-09, January 2015	1 Silver Medal	11.	Taekwondo (W)	Prathyasha Institute of Technology & Management, Traveller Anna University, Chennai	15-17, March 2015
9.	Rowing (W)	University of Calicut, Calicut	25-31, January 2014	1 Gold Medal 1 Silver Medal (Overall Second Place)	7.	Yachting (M)	Punjabi University, Patiala	09-11, January 2015	3 Silver Medals (Overall Second Place)	12.	Taekwondo (W)	Prathyasha Institute of Technology & Management, Traveller Anna University, Chennai	15-17, March 2015
10.	Ball Badminton(W)	Dravidian University, Koppal	01-05, February 2014	Third	8.	Athletics (M & W)	Rajiv Gandhi University of Health Sciences, Bangalore	10-20, January 2015	1 Gold Medal 6 Silver Medals 1 Bronze Medal	13.	Rowing (W)	Guru Nanak Dev University, Amritsar	26-28, March 2015
11.	Table Tennis (M)	University of Calicut, Kozhikode	15-18, February 2014	Fourth	9.	Fencing (M)	Punjabi University, Patiala	30 January - 02 February 2015	5 Silver Medals (Overall Third Place)	14.	Rowing (M)	Guru Nanak Dev University, Amritsar	26-28, March 2015
12.	Table Tennis (W)	University of Calicut, Kozhikode	15-18, February 2014	Second	10.	Fencing (W)	Punjabi University, Patiala	30 January - 02 February 2015	11 Silver Medals (Overall Second Place)	15.	Rowing (M)	Guru Nanak Dev University, Amritsar	26-28, March 2015
13.	Power Lifting (M)			1 Gold Medal 3 Silver Medals (Overall Second Place)	11.	Squash Rackets (W)	Parisutham Institute of Technology & Science, Thanjavur Anna University, Chennai	18-19, February 2015	First	16.	Rowing (W)	Guru Nanak Dev University, Amritsar	26-28, March 2015
14.	Power Lifting (W)	Hindustan College of Engineering, Coimbatore, Anna University Chennai	01-07, March 2014	2 Silver Medals (Overall Second Place)	12.	Boxing (W)	Lovely Professional University, Jalandhar	19-23, February 2015	1 Silver Medal (Third Place)	17.	Rowing (W)	Guru Nanak Dev University, Amritsar	26-28, March 2015
15.	Best Physique (M)			2 Gold Medals (Overall First Place)	13.	Taekwondo (M)	Prathyasha Institute of Technology & Management, Traveller Anna University, Chennai	13-15, March 2015	1 Bronze Medal	18.	Rowing (W)	Guru Nanak Dev University, Amritsar	26-28, March 2015
16.	Tennis (M)	SRM University, Chennai	07-11, March 2014	Third	14.	Taekwondo (W)	Prathyasha Institute of Technology & Management, Traveller Anna University, Chennai	16-17, March 2015	2 Silver Medals 1 Bronze Medal	19.	Rowing (W)	Guru Nanak Dev University, Amritsar	26-28, March 2015
Prof. Dr. D. ARIVUOLI Chairman AUSB					Prof. Dr. D. ARIVUOLI Chairman AUSB					Prof. Dr. D. ARIVUOLI Chairman AUSB			
Prof. Dr. S. GANESAN Registrar					Prof. Dr. S. GANESAN Registrar					Prof. Dr. S. GANESAN Registrar			
Prof. Dr. M. RAJARAM Vice-Chancellor					Prof. Dr. M. RAJARAM Vice-Chancellor					Prof. Dr. M. RAJARAM Vice-Chancellor			

July 2009- May 2012  
The Director  
Crystal Growth Centre  
Anna University

### Highlights:

As Crystal Growth Centre, is a national facility created by UGC, New Delhi for the benefit of young researchers Indian universities the following facilities were lagging and I was responsible for creating the same during my tenure as the Director, Crystal Growth Centre.

- Responsible for the New Crystal Audi with a seating capacity of 120 with ductable air conditioning and sound proof side walls
- Responsible for bringing in a grant of 78 lakhs under DST-FIST (in engineering sciences) in 2010.
- Established AFM laboratory in the Crystal Growth Centre 2012(Inaugurated on 13<sup>th</sup> March 2012)
- Responsible for bringing in **4.2 crores (INR) from UGC under XI plan** and the following characterization equipment have been procured and put into use from July 2012 onwards.
  - Powder XRD** 60 Lakhs
  - SEM with EDAX** 90 Lakhs
  - FTIR with imaging** 60 Lakhs
  - Second floor in CGC** 100 Lakhs
- Responsible for setting up a full pledged SPM coupled nanoindenter laboratory.




**ANNA UNIVERSITY**  
Chennai - 25  
**Crystal Growth Centre**  
**CRYSTAL AUDI**

Inaugurated by  
**Dr. P. MANNAR JAWAHAR**  
Vice Chancellor

On Wednesday the 18<sup>th</sup> August 2010

Dr. D. Arivuoli    Dr. Suresh Kuppaswamy    Dr. S. Shanmugavel  
Director            Prof. & Estate Officer    Registrar



**Anna University**  
**CRYSTAL GROWTH CENTRE**

Atomic Force Microscopy (AFM) facility  
Funded by Department of Science and Technology (DST), New Delhi  
(under DST-FIST programme)

Opened by  
**Dr. P. Mannar Jawahar**  
Vice Chancellor

On  
13<sup>th</sup> March 2012

Dr. S. Shanmugavel    Dr. D. Arivuoli    Dr. Suresh Kuppaswamy  
Registrar            Director & Coordinator    Prof. & Estate Officer




**ANNA UNIVERSITY**  
Crystal Growth Centre

SPM coupled Nanoindenter facility  
Funded by Department of Information Technology (DIT), New Delhi.  
(under Nanoinitiative programme)

Opened by  
**Dr. P. MANNAR JAWAHAR**  
Vice Chancellor  
on 26<sup>th</sup> August 2011

Dr. S. Shanmugavel    Dr. D. Arivuoli    Dr. Suresh Kuppaswamy  
Registrar            Director and PI            Prof. & Estate Officer




**ANNA UNIVERSITY**  
Crystal Growth Centre

HRXRD and Photoluminescence facility  
Funded by Department of Science and Technology (DST), New Delhi.  
(under Nanoinitiative programme)

Opened by  
**Dr. P. MANNAR JAWAHAR**  
Vice Chancellor  
on 26<sup>th</sup> August 2011

Dr. S. Shanmugavel    Dr. K. Baskar, PI    Dr. Suresh Kuppaswamy  
Registrar            Dr. D. Arivuoli, Director    Prof. & Estate Officer



**ANNA UNIVERSITY**  
CRYSTAL GROWTH CENTRE

**Sophisticated Characterization Facilities**

1. SCANNING ELECTRON MICROSCOPE (SEM)
2. POWDER X-RAY DIFFRACTOMETER (XRD)
3. FTIR SPECTROMETER WITH IMAGING

(Funded By UGC under IUC Facility)

Opened by  
**Dr. P. KALIRAJ**  
**VICE-CHANCELLOR**

On 19<sup>th</sup> OCTOBER 2012

Dr. S. SHANMUGAVEL    Dr. MONSINGH D. DEVADAS    Dr. S. SIVANESAN  
REGISTRAR            ESTATE OFFICER            DEAN, A.C.T.

Dr. K. BASKAR    Dr. D. ARIVUOLI  
DIRECTOR            COORDINATOR

## Awards and Honors:

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### AWARDS/ HONOURS/ FELLOWSHIPS

Fellow, Royal Society of Chemistry, UK

CChem, Royal Society of Chemistry, UK

Fellow, Indian Chemical Society

Member, Tamilnadu State Panel for Koodamkulam Nuclear Power Project, 2012

76<sup>th</sup> Indian Science Congress Madurai Kamaraj University Eminent Scientist Endowment Award, 2010

Distinguished Scientist Award, Venus International foundation, Chennai, 2015

Distinguished Researcher Award, Anna University, 2017

Lifetime Achievement Award, Venus International foundation, Chennai, 2017  
Lifetime Achievement Award, AMET University, Chennai, 2017

Distinguished Nanoscientist Award, AMET University, Chennai, 2018

Work on Nanomechanics is being referred in international journals as Arivuoli et al MODEL, Polymer, 46(2005)4032-4040 (Europe)

A New thermo dynamical model proposed for predicting the melting point of nanoparticles (J. Nanoscience and Nanotechnology, Vol 11 (2011)1-8 (USA))

Published a paper in Advanced Materials (American Journal) which has the impact factor of 22.59

Completed a major research project from DOE (Rs. 2.34 Crores) Directed self assembly of GaN and InGaN quantum dots suitable for fabrication of LEDs

ICTP fellowship (Italy), 1989-90, 1991-92

Commonwealth Fellowship (England), 1998-1999

Visiting Professor, NIMS, Tsukuba, Japan, 2010

Erasmus Mundus Research fellowship, Bologna, Italy, 2011

### **Member**

UGC expert Committee for Major research projects 2011, 2012, 2014

UGC expert Committee for colleges with potential for excellence 2012

UGC expert Committee for autonomous status to colleges, 2011

UGC expert Committee to visit Deemed University, Jaipur, 2014

UGC Nominee, Advisory committee, Jamia Milla Islamia, New Delhi

UGC Nominee, Advisory committee, UGC-Centre of excellence in Nanotechnology, Panjabi University, Chandigarh,

UGC expert Member, Women PDF interface meeting, New Delhi, March, 2014

UGC Midterm Evaluation committee, UPE, UoH, January 13-15, 2015

UGC Expert member, UPE, University of Mysore, 6-8, August, 2015

**Chairman, Scientific Committee, Chennai Science Festival, Science city, Dept., of Higher Education, Govt. of Tamilnadu, 2013, 2014, 2015, 2016, 2017, 2018**

### **Editor –in--Chief**

International journal of Nanomaterials and Technology (India)

### **Associate Editor**

Research Journal of Nanoscience and Technology

### **Editorial Board Member:**

1. The open journal of Recent patents in Mechanical Engineering (**USA**)
2. The Journal of Crystallization Physics and Chemistry (**INDIA**)
3. International journal of Biosciences and Technology (**INDIA**)
4. Energy and Environment Focus (**USA**) American Scientific Publishers
5. Journal of Instrumentation
6. Mechanical Engineering Open Access Open Journal

**REVIEWER: International Journals of Elsevier Publications, UK\**

Journal of American Ceramic society  
NANOTECHNOLOGY  
Wear  
Semiconductor science and Technology  
Measurement science and Technology  
Journal Physics D: Applied Physics  
Journal of Condensed Matter Physics  
J. Surface and coatings technology  
Applied surface science

<b>FELLOW (1996)</b>	<b>Indian Chemical Society,</b>	Calcutta, India
<b>FELLOW (2018)</b>	<b>Royal Society</b>	UK
<b>CChem (Chartered Chemist) (2018)</b>	<b>Royal Society</b>	UK
76 <sup>th</sup> Indian Science Congress - <b>Eminent Scientist Endowment award 2010</b>	Madurai	Madurai Kamaraj University, Madurai, India
Erasmus Mundus European Research award <b>2011</b>	European Union	Europe
<b>Distinguished Scientist award 2015</b>	Chennai	Venus International Foundation, Chennai, India
<b>Distinguished Researcher Award 2017</b>	Chennai	Anna University, Chennai
Life time achievement award <b>2017</b>	Chennai	Venus International Foundation, Chennai, India
<b>Life time achievement award 2018</b>	Chennai	AMET University, Chennai, India
<b>Distinguished Nanoscientist Award 2018</b>	Chennai	AMET University, Chennai, India
ICTP Awardee (1989-90)	MASPEC-CNR, PARMA, ITALY	Vapour Phase Epitaxial Growth of III-V compounds
ICTP, April 1990	Lisbon, Portugal	X European conference on condensed matter
ICTP Awardee December 1991	Trieste, Italy	School on optoelectronics
ICTP awardee 1991-92	MASPEC-CNR, PARMA, ITALY	MOVPE growth of GaAs/Si, InGaP/InP compounds
MASPEC-CNR Parma, April-May 1992	Bratislava Czechoslovakia	International workshop on characterization of semiconductor substrates and structures
University of Lyon May 1992	Lyon, France	First EXMATEC workshop
MASPEC-CNR, Parma	Torino, Italy	European school on semiconductors
<b>Commonwealth Fellowship 1998-99</b>	Lancaster University, England	Growth and characterization of epilayers
ACU fellowship April 1999	University of Turku, Finland	International summer school on metal and metal surfaces

ACU fellowship September 1999	Glasgow Scotland	International conference on crystallography
ACU fellowship Sep- Oct 1999	IMEM-CNR, Parma	Growth of InAsSb/InSb by MOVPE
MASPEC-CNR, Parma, September 1999	Universita di Napoli, Napoli, Italy	Italian conference on crystallography
ICTP, Italy, October 1999	MASPEC-CNR, Parma	Growth of InAsSb/InSb by MOVPE
Taipei, Taiwan February 2002	NSF, Taiwan	INEER retreat and workshop
NSF, Taiwan December 2006	Lungwa University, Taiwan	Taiwan – India conference on Nanomaterials
Nanofab, Venice	IMEM-CNR, Italy	Joint research programme
Nanofab, Venice	Venice, Italy	Joint research programme
<b>Member, Tamilnadu State Koodankulam Nuclear Power project 2012</b>	Four Member Panel	Tamilnadu State Government, Tamilnadu, India

<b>Visit abroad</b>	<b>Place</b>	<b>Nature of work</b>
<b>ICTP Awardee</b> (1989-90)	MASPEC-CNR, PARMA, <b>ITALY</b>	VPE Growth of III-V compounds
ICTP, April 1990	Lisbon, <b>Portugal</b>	X European conference on condensed matter
<b>ICTP Awardee</b> December 1991	Trieste, <b>Italy</b>	School on optoelectronics
<b>ICTP awardee</b> 1991-92	MASPEC-CNR, PARMA, <b>ITALY</b>	MOVPE growth of GaAs/Si, InGasP/InP compounds
<b>MASPEC-CNR</b> Parma, April-May 1992	Bratislava <b>Czechoslovakia</b>	International workshop on characterization of semiconductor substrates and structures
<b>MASPEC-CNR</b> Parma, April 1992	Vienna, Austria	Characterization studies
<b>University of Lyon</b> May 1992	Lyon, <b>France</b>	First EXMATEC workshop
MASPEC-CNR, Parma	Torino, <b>Italy</b>	European school on semiconductors
<b>Commonwealth Fellowship 1998-99</b>	Lancaster University, <b>England</b>	LPE growth and characterization of Infrared materials
<b>ACU fellowship</b> April 1999	University of Turku, <b>Finland</b>	International summer school on metal and metal surfaces
<b>ACU fellowship</b> September 1999	Glasgow, <b>Scotland</b>	International conference on crystallography
<b>ACU fellowship</b> Sep- Oct 1999	IMEM-CNR, Parma, <b>Italy</b>	Growth of InAsSb/InSb by MOVPE
MASPEC-CNR, Parma, September 1999	Universita di Napoli, Napoli, <b>Italy</b>	Italian conference on crystallography

<b>ICTP,</b> Italy October 1999	MASPEC-CNR, Parma, <b>Italy</b>	Growth of InAsSb/InSb by MOVPE
Taipei, Taiwan February 2002	NSF, <b>Taiwan</b>	INEER retreat and workshop
<b>NSF, Taiwan</b> December 2006	Lungwa University, <b>Taiwan</b>	Taiwan – India conference on Nanomaterials
<b>Erasmus Mundas Fellowship</b> 2010	University of Bologna, Bologna, <b>Italy</b>	Electrical characterization of semiconductors
<b>Nanofab,</b> Venice, May 2010	Venice, <b>Italy</b>	Joint research programme
<b>NIMS, Tsukuba, Japan Dec., 2010</b>	NIMS, Tsukuba, <b>Japan</b>	Joint research programme

## Member (National/State level) of Expert

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- UGC (University Grants Commission, New Delhi, India) expert Committee member, for selecting Major research projects submitted to UGC during 2011, 2012, 2014 (All India basis)
- UGC expert Committee member, for selecting colleges with potential for excellence 2012 (All India basis)
- UGC expert Committee member, for autonomous status to colleges, 2011
- UGC expert Committee member, to consider for Deemed University status to Amity University, Jaipur, 2014
- UGC Nominee, Advisory committee, Jamia Milla Islamia University, New Delhi, India
- UGC Nominee, Advisory committee, UGC-Centre of excellence in Nanotechnology, Panjabi University, Chandigarh, India
- UGC expert Member, Women PDF interface meeting, New Delhi, March, 2014 (All India Basis)
- UGC Midterm Evaluation committee, University with Potential for Excellence (UPE), University of Hyderabad, January 13-15, 2015
- UGC Expert member, UPE, University of Mysore, 6-8, August, 2015
- Member, Tamilnadu State four member Panel for Koodamkulam Nuclear Power Project, (KKNPP) 2012
- Chairman, Scientific Committee, Chennai Science Festival, Science city, Dept., of Higher Education, Govt. of Tamilnadu, 2012, 2013, 2014, 2015, 2016

## Research Journals

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### Editorial Board Member

The open journal of Recent patents in Mechanical engineering (**USA**)  
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Journal of Alloys and Compounds  
Journal of Materials Science (Chapman &Hall)  
International Journal of Biological Macromolecules (Elsevier)

## Research Projects completed

Sl. No	Title of the project	Amount INR	Duration	Funding agency	Status of the project
1	Development of Photonic devices with emphasis on epitaxy of semiconducting materials.	17,00,000	(1991-92)	MHRD (GOI)	Completed
2	Development of facilities for the growth of laser quality ruby and sapphire Crystals.	8,00,000	(1993-95)	MHRD (GOI)	Completed
3	Growth of GaAs and InP bulk crystals	54,16,000	(1990-95)	DOE (GOI)	Completed
4	Growth of binary, ternary and quaternary epilayers by hydride VPE and their characterisation	1500 USD	(1993)	ICTP (Italy)	Completed
5	Growth of semiconducting laser materials for optoelectronics	5,00,000	(1992-93)	MHRD (GOI)	Completed
6	Growth of laser and non-linear crystals	1,46,00,000	(1993-2001)	DAE (GOI)	Completed
7	Development of materials science with emphasis on semi conducting materials	12,00,000	(1991-93)	MHRD (GOI)	Completed
8	Growth and characterisation of oxyhalides of antimony and bismuth	1,89,000	(1994-97)	UGC (GOI)	Completed
9	Irradiation effects of GaN epitaxial layers	1,24,000	(2002-05)	NSC	completed
10	Irradiation effects of wafer bonded GaAs/Si for solar cell applications	1,24,000	(2001-02)	NSC	completed
11	Growth and characterization of cholestrol crystals	2,65,000	(2001-04)	UGC	completed
12	Growth and characterization of InGaAsSb /InAs epilayers suitable for 2.54 micron laser	5000 USD	(2002)	ICTP Italy	completed
13	Preparation of directed self-assembly of GaN and InGaN quantum dots for the fabrication of LEDs	2,34,00,000	2010-13	D I T (GOI)	completed
14	Nanomechanical characterization of biomimetic materials	9,94,000	2010-13	UGC	completed
15	UGC, XI plan grant (2011-12)	4,24,00,000	2011-12	UGC	completed
16	DST-FIST, India	78,00,000	2009-12	DST	completed
17	Preparation of Superabsorbent materials	22,40,000	2017-2020	DST	Ongoing

## Research Collaborations

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- Dr.G. Attolini, IMEM-CNR, Parma, Italy
- Dr.V. Guidi, University of Padova, Italy
- Dr. Abe Hideki, NIMS, Tsukuba, Japan
- Dr. Gianluca Ciardelli Chiara, Politecnico di Torino, Italy

## Membership in Professional bodies

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1. Fellow, Indian Chemical society, Calcutta
2. Life Member, Asian Nanoscience and Nanotechnology Association, Japan (from 2012 onwards)
3. Life Member, Academy of Nanoscience and Nanotechnology, Japan (from 2012 onwards)
4. Life Member, Indian Laser Association, RRCAT, India (from 2012 onwards)
5. Life Member, Indian Association for Crystal Growth, Chennai (from 1990 onwards)
6. Member, American Chemical Society (2016-18)
7. Member, SPIE, (1993-1995)
8. Member, Indian Physical Society, Calcutta (1989-1994)
9. Member, American Physical Society, USA (1991-92)

## Member of Board of Studies (Nanotechnology)

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1. Anna University, Chennai, Tamilnadu, India
2. SRM University, Kattankulathur, Chennai, Tamilnadu, India
3. Chettinad hospitals and University, Chennai, Tamilnadu, India
4. Noorul Islam University, Nagercoil, Tamilnadu, India
5. Bharathiyar University, Coimbatore, Tamilnadu, India
6. B.S. Abdur Rahman University, Chennai, Tamilnadu, India
7. PSG College of Technology, Coimbatore, Tamilnadu, India
8. Avinashilingam deemed University, Coimbatore
9. IIIT, Srirangam, Trichirapalli,

## Books/Chapters

1. Arivuoli, D., 2001. Encyclopedia of Materials: Science and Technology. In: Principles of the Verneuil Growth Technique, Buschow, K.H.J. (Ed.). 2nd Edn., Elsevier, New York, USA. pp: 7854-7856.
2. Written a review article on " Nonlinear optical materials and its applications" for the "Pramana" journal published in 57, 871-883, 2001
3. D. Arivuoli and S. Suresh Growth and characterization of organic and semiorganic NLO crystals", LAMBERT Academic Publishing, ISBN 978-3-659-31400-1, 2013
4. D. Arivuoli and P. Antoniammal, Size and shape dependence of melting of nanoparticles", LAMBERT Academic Publishing, ISBN 978-3-659-31400-1, 2018
5. Thamizhavel, A., R. Jayavel, D. Arivuoli and C. Subramanian, 1993. Growth and Characterization of BiSrCaCuO Whiskers. In: Applied Superconductivity, Factofy (Ed.), DGM Press, Germany, pp: 1557.
6. Dipika Robidas and D Arivuoli, Physics of Semiconductor Devices, pp 189-192, Reduction of Electron Overflow Problem by Improved InGaN/GaN Based Multiple Quantum Well LEDs Structure with p-AlInGaN/AlGaIn EBL Layer, 17th International Workshop on the Physics of Semiconductor Devices 2013, Editors; V. K. Jain, Abhishek Verma, Part of the Environmental Science and Engineering book series

## National and International conferences/workshop organized by Prof. Dr.D. Arivuoli

Co-Coordinator	ISTE summer school organized during June 5-16, 1991, at Crystal growth Center, Anna University, Chennai, India.
Coordinator	UGC, India, Refresher school on Recent advances in crystal Growth and characterization, during May 28 - June 17, 2001.
Convener	International workshop on Nanoscience and Technology, 13-17, February, 2006 Sponsored by ICTP, Italy and Anna University, Chennai 25
Coordinator	AICTE faculty development programme on Fundamentals of Nanoscience and Technology, 8-31, January 2007 at Anna University, Chennai 25.
Coordinator	"Introduction to Nanoscience" a two days course organized for M/s. Philips International, Bangalore during 2-3, February 2007 at Anna University, Chennai 25.
Coordinator	TEQIP sponsored orientation programme on Introduction to Nanoscience and Technology, 30-31, March, 2007 at Anna University, Chennai 25.
Coordinator	TEQIP sponsored Community Development programme on Introduction to Nanoscience and Technology, for school teachers 29-30, September, 2007 at Anna University, Chennai 25
Coordinator	Introduction to Nanotechnology, organized by Science city, Chennai, during January 3-7, 2008
Coordinator	TNSCST, Chennai and NCSTC, New Delhi sponsored One day Awareness programme on current trends in nanotechnology for final year BE/BTech students of engg. Colleges, 31 October, 2008 at Anna University Chennai
Convener	Advanced Level International workshop on Nanoscience and Technology, 23-27, February, 2009 Anna University, Chennai 25
Convener	International workshop on Advances in Nanoscience and Technology, 28-30, October, 2009 Anna University, Chennai 25
Convener	UGC awareness programme on Recent Trends in Crystal Growth and

	Characterization, 30 March, 2010, Anna University, Chennai
Coordinator	Awareness programme on Nanoscience and Technology, 23-27, August, Science City, Chennai
Convener	Indo-Italian advanced level workshop on semiconductor nanostructures, ultrathin films and applications, 08-10, September, 2010, Anna University, Chennai 25
Convener	International workshop on wide band gap semiconductor nanostructures 10-11, January, 2011 Anna University, Chennai 25
Coordinator	International workshop on Advanced functional Nanomaterials, 21-24 February 2011, Anna University, Chennai 25
Coordinator	International Workshop on Biomedical Sciences and Technologies, 2-4 March, Anna University, Chennai 25
Convener	Asia- Pacific workshop on materials characterization, 22-24 September 2011, Anna University, Chennai 25
Convener	Indo-Italian workshop on Molecular Nanophotonics, 24-26, July, 2013 Anna University, Chennai 25
Coordinator	International workshop on advanced materials for Device technology, 22-24, November, 2017, Anna University
Coordinator	FDTP programme on Materials Science, 22 Jan -2 Feb, 2019, Anna University

### Speaker in National and International conferences/workshop

S. No.	Date	Title of Conference or Institution	Title/ Subject of Presentation
1	April 9-12, 1990, Lisbon, Portugal.	European Physics Society condensed matter conference	The role of IV-V compounds in III-V compounds
2	April 1-4, 1992, Piestany, Bratislava	10th International workshop on characterization of semiconductor Materials and structures	Growth of InGaAsP epilayers by hydride VPE
3	May 19-22, 1992 Lyon, France,	1st Expert workshop on evaluation of semiconductors and technology	The variation of lattice parameter of homoepitaxial layers of HVPE grown InP
4	January 9-13, 2006, Anna University Chennai	International workshop on crystal growth and characterization of advanced materials	Nanocharacterisation of thin films
5	January, 23-28, 2006 Anna University, Chennai	International workshop on nano science and technology	Nanomechanical characterisation of epitaxial layers
6	11-12, Dec, 2006, Shungwa University, Taiwan (Chaired a session)	Taiwan - India conference on Nano materials	Preparation of quantum dots and its characterization
7	25-27, October, 2007 NI College of Engineering, Nagercoil	Second international conference on emerging adoptive systems and technology	Directed self assembly of quantum dots using nanoindentation

8	29-30 January, 2009 Vellammal College of Engineering, Chennai	<b>International conference</b> on Functional materials for advanced Technology	Nanomaterials for electronic devices
9	February 13-18, 2009, Anna University, Chennai	<b>Second International workshop</b> on advances in nanoscience and technology	Nanoindentation – a tool for Nano mechanical characterization
10	March 8-10, 2010 Vivekananda college of Engineering, Tiruchencode, Tamilnadu <b>Chaired a session</b> <b>Chief guest for the valedictory function</b>	<b>International conference</b> on Nanotechnology and bionanotechnology	Quantum dots: Preparation and applications
11	October 11-13, 2010 <b>IETE, CETTM,</b> Powai, Mumbai <b>(Chaired a session)</b>	<b>4<sup>th</sup> International Conference</b> on Nano technology & Health Care Applications	Quantum dots: Preparation and Characterization
12	29-30, April, 2011 RMK Engineering College, Chennai	<b>International conference</b> on Applied Physics and Mathematics	Session Chair
13	23-24, May 2017 Kongu Engineering College, Erode, India <b>(Invited talk)</b>	<b>International conference</b> on Energy, Environment and Advanced Materials for a sustainable Future	Advanced materials for energy applications
14	19-21, August , 2017 Amity University, Jaipur, India <b>(Key Note speaker &amp; Chaired a session)</b>	<b>International conference</b> on Nano Technology in Energy, Nano-bio interface & Sustainable Environment (INTENSE) 2017	Preparation and characterization of some heteroepitaxial structures and biomimetic materials
15	8-10, November, 2017 Chandigarh, India <b>(Key Note speaker)</b>	<b>NanoSciTech 2017-</b> Expanding horizons of Nanotechnology	Advanced Nanomaterials for fuel cell applications
16	3-5, November, 2018 Sandip University Nashik, Maharastra <b>(Key Note speaker &amp; Chaired a session)</b>	International conference on Engineering, Science and Management	Nanoarchitectonics based nanomaterials for fuel cell applications

S. No.	Date	Title of Conference or institution	Title/ Subject of Presentation
1	March 27-28, 2006	<b>National conference</b> on Recent advances in Nanotechnology, NI College of engineering, <b>Nagercoil.</b>	Nanoindentation studies of semi conducting materials
2	April 21-22, 2006,	<b>National conference</b> on application oriented materials, <b>SRM Institute of science and Technology,</b> Tamilnadu <b>Chaired a session</b>	Quantum dots: Preparation and characterization
3	July 14-15, 2006	<b>National conference on nanobiotechnology</b> and genomic, <b>SRM Institute</b> of science and Technology, Tamilnadu <b>Chaired a session</b>	Quantum dots: Its importance and applications

4	January 9-13, 2006,	<b>International workshop</b> on crystal growth and characterization of advanced materials, Anna University, Chennai	Nano characterization of thin films
5	January 23-28, 2006	<b>International workshop</b> on nanoscience and technology, Anna University Chennai	Nanomechanical characterization of epitaxial layers
6	18-31, January 2007	<b>AICTE faculty</b> development programme on Fundamentals of nanoscience and technology, Anna University Chennai	Introduction to Nanotechnology
7	2-3, February 2007	Two days course on Introduction to Nanotechnology organized for <b>M/s. Philips International, Bangalore</b>	Basic aspects of Nanoscience and technology
8	30-31, March, 2007	<b>TEQIP</b> sponsored orientation programme on Introduction to Nanoscience and Technology, at Anna University, Chennai 25.	Introduction to nanophysics
9	September 26-28, 2007,	Faculty development programme on Introduction to nanotechnology and its applications, <b>Government of college of Engineering, Salem</b>	Introduction to Nanoscience and Technology
10	29-30, September, 2007	<b>TEQIP</b> sponsored Community Development programme on Introduction to Nanoscience and Technology, for school teachers at Anna University, Chennai 25	Nature and Nanotechnology
11	October 11-13 2007	<b>4th International Conference</b> on Nanotechnology & Health Care Applications held during, <b>IETE, CETTM, Powai, Mumbai</b> <b>Chaired a session</b>	Quantum dots: Preparation and Characterization
12	25-27 October, 2007	<b>Second international conference</b> on emerging adoptive systems and technology, held at NI college of engineering, <b>Nagercoil</b>	Directed self assembly of quantum dots using nanoindentation
13	24, June, 2008	One day seminar on nanotechnology Pavai College of Engineering, Salem	Introduction to Nanotechnology
14	June 2-14, 2008	STTP-QIP course on Nanotechnology for clean energy, IIT, Madras.	Introduction to Nanotechnology
15	April, 2008	One day seminar on Nanotechnology, Maha College of Engineering, Salem	Convergence of Convergence
16	June, 2008	Two days seminar on Nanotechnology Sri Vinayaka mission college of Engineering, Chennai,	Directed self assembly of quantum dots,
17	13 Aug 2008	Periyar Maniyammai university, Tanjore,	Introduction to quantum dots
18	6 September 2008	Vels college of Engineering,	Quantum dots –

		Chennai,	applications in Nanobiotechnology
19	29th October, 2008	Theivanai Ammal College for women, Villupuram	Introduction to Nanoscience and technology
20	December 22-23, 2008,	National conference on Advances in Materials Science, S. Abdur Rahman Crescent Engineering College	Quantum dots: Preparation and characterization
21	30 January, 2009	International conference on Functional materials for advanced Technology Vellammal college of Engineering, Chennai, 29	Introduction to Nanoscience and technology
22	Jan, 22, 2009	UGC- Academic staff college, Bharathiyar University, Coimbatore	Epitaxial growth and characterisation
23	Feb, 13-18, 2009	Second International workshop on advances in nanoscience and technology, Anna University, Chennai.	Nanoindentation – a tool for nanomechaical characterization
24	July, 28-29, 2009	National seminar on materials and devices, Vidyanager, Nellore, , India	Preparation and characterization of quantum dots
25	August 20-21, 2009	National seminar on Nanotechnology and its applications. SSN college of engineering, India	InAs based quantum dots and its applications
26	August 21-22, 2009	National seminar on Recent Advances in Materials science, Devakottai	Introduction to quantum dots and its applications
27	Jan, 28, 2010	ISTE-STTP Programme, Pondicherry University, Pondicherry	MOCVD growth of heterostructures
27	September 2010	International conference on Nanotechnology and bionanotechnology Vivekananda college of Engineering, Tiruchencode, Tamilnadu	Quantum dots: Preparation and applications
28	October 2011	National seminar on Nanomaterials, SVCE, Sriperumpudur, Chennai	Nanomechanical characterization
29	Jan, 23, 2012	UGC- Academic staff college, Bharathiyar University, Coimbatore	Nucleation kinetics of epitaxy of III-V compounds
30	December 2012	QIP programme, IIT, Chennai	Quantum dots based LEDs
31	January 2013	National seminar on Nanomaterials, Dept of Manufacturing Engg., Anna University, Chennai	Nanotechnology in Nature
32	May 23, 2013	UGC- Academic staff college, Bharathiyar University, Coimbatore	Biomimetic materials
33	May 25, 2016	UGC- Academic staff college, Bharathiyar University, Coimbatore	Advanced materials for fuel cell applications

## Publications

1	<p><b>A Cost Effective, Facile Hydrothermal Approach of Zinc Sulfide Decorated on Graphene Nanocomposite for Super capacitor Applications</b> Ranjith Balu, Suresh Sagadevan, and Arivuoli Dakshanamoorthy <b>Journal of Nanoscience and Nanotechnology, 19 (2019)</b></p>
2	<p><b>Mixed-valence NaSb<sub>3</sub>O<sub>7</sub> support toward improved electrocatalytic performance in the oxygen-reduction reaction</b> Koolath Ramakrishnan Deepthi, Gubbala V. Ramesh, Rajesh Kodiyath, Paskalis Sahaya Murphin Kumar, <a href="#">Arivuoli Dakshanamoorthy</a> and Hideki Abe <b>Journal of Materials Chemistry A, 5(4) 2017 1667-1671</b></p>
2	<p><b>Dealloyed nanoporous pt-based alloys as high performance anode catalysts for direct alcohol fuel cells</b> Koolath Ramakrishnan Deepthi, Tsubasa Imai, Ya Xu, <a href="#">Arivuoli Dakshanamoorthy</a>, Gubbala V. Ramesh and Hideki Abe <b>Journal of Nanoscience and Nanotechnology, 17(5) 2017 2991-2998</b></p>
3	<p><b>Physico-chemical and biological studies on three-dimensional porous silk/spray-dried mesoporous bioactive glass scaffolds</b> Aruneshan Chandrasekaran, Giorgia Novajra, Irene Carmagnola, Piergiorgio Gentile, Sonia Fiorilli, Marta Miola, Manjunatha Boregowda, <a href="#">Arivuoli Dakshanamoorthy</a>, Gianluca Ciardelli Chiara, Vitale-Brovarone <b>Ceramics International, 42(2) 2016 13761-13772</b></p>
4	<p><b>Evaluation of nanoindentation and nanoscratch characteristics of GaN/InGaN epilayers</b> Geetha, D., Joice Sophia, P., Radhika, R., <a href="#">Arivuoli, D.</a> <b>Materials Science and Engineering A 683, (2017) pp. 64-69</b></p>
5	<p><b>Evaluation of microindentation properties of epitaxial 3C-SiC/Si thin films</b> Geetha, D., Sophia, P.J., <a href="#">Arivuoli, D.</a> <b>Physica B: Condensed Matter 490 (2016) pp. 86-89</b></p>
6	<p><b>Synthesis and electro-catalytic properties of platinum supported on Graphene for methanol oxidation</b> Karthika, P., Rajalakshmi N, Dhathathreyan K.S, <a href="#">Arivuoli D</a> <b>Journal of Nanoscience and Nanotechnology 15(12), (2015) pp. 9746-9753</b></p>
7	<p><b>Simulation studies of InGaN based light-emitting diodes to reduce electron overflow problem by designing electron blocking layer</b> Robidas, D., <a href="#">Arivuoli, D.</a> <b>Journal of Nanoscience and Nanotechnology 15(6), (2015) pp. 4414-4420</b></p>
8	<p><b>Enhanced violet photoemission of nanocrystalline fluorine doped zinc oxide (FZO) thin films</b> Anusha, M., <a href="#">Arivuoli, D.</a>, Manikandan, E., Jayachandran, <u>M.</u> <b>Optical Materials 47, (2015) pp. 88-94</b></p>
9	<p><b>Tailoring the surface-oxygen defects of a tin dioxide support towards an enhanced electrocatalytic performance of platinum nanoparticles.</b> Maidhily Manikandan, Toyokazu Tanabe, Gubbala V Ramesh, Rajesh Kodiyath, Shigenori Ueda, Yoshiki Sakuma, Yusaku Homma, <a href="#">Arivuoli Dakshanamoorthy</a>, Katsuhiko Ariga and Hideki Abe <b>Physical chemistry Chemical Physics, 18(8) 2016 5932-5937</b></p>
10	<p><b>Studies of nanoindentation and residual stress analysis of Ge/GaAs epilayers</b> Joice Sophia Ponraj, Elisa Buffagni, Geetha Deivasigamani, <a href="#">Arivuoli Dakshanamoorthy</a>, Matteo Bosi, Claudio Ferrari and Giovanni Attolini <b>Semiconductor Science and Technology, 30, 2015, 055004</b></p>

11	<p><b>Low-Temperature Remediation of NO Catalyzed by Interleaved CuO Nanoplates</b> Francis Malar Auxilia, Shinsuke Ishihara, Saikat Mandal, Toyokazu Tanabe, Govindachetty Saravanan, Gubbala V Ramesh, Naoto Umezawa, Toru Hara, Ya Xu, Shunichi Hishita, Yusuke Yamauchi, <a href="#">Arivuoli Dakshanamoorthy</a>, Jonathan P Hill, Katsuhiko Ariga and Hideki Abe <b>Advanced Materials</b>, 26(26) (2014) 4481-4485 (Cover page article)</p>
12	<p><b>Interleaved mesoporous copper for the anode catalysis in direct ammonium borane fuel cells.</b> Francis M Auxilia, Toyokazu Tanabe, Shinsuke Ishihara, Govindachetty Saravanan, Gubbala V Ramesh, Futoshi Matsumoto, Xu Ya, Katsuhiko Ariga, <a href="#">Arivuoli Dakshanamoorthy</a> and Hideki Abe <b>Journal of Nanoscience and nanotechnology</b>, 14(6) (2014) 4443-4448</p>
13	<p><b>Photocatalytic Water Splitting under Visible Light by Mixed-Valence Sn3O4.</b> Maidhily Manikandan, Toyokazu Tanabe, Peng Li, Shigenori Ueda, Gubbala V Ramesh, Rajesh Kodiyath, Junjie Wang, Toru Hara, <a href="#">Arivuoli Dakshanamoorthy</a>, Shinsuke Ishihara, Katsuhiko Ariga, Jinhua Ye, Naoto Umezawa, Hideki Abe <b>ACS applied materials &amp; interfaces</b>, 6(6) (2014) 3790-3793</p>
14	<p><b>Tribological properties of <math>\gamma</math>-TiAl alloy sliding with various counterbodies</b> Ramadoss R. Kumar N, Dash S, <a href="#">Arivuoli D</a>, Tyagi A.K. <b>Indian Journal of Engineering and Material sciences</b>, 21(4) (2014) 473-476</p>
15	<p><b>Extremely high wear resistance and ultra-low friction behaviour of oxygen-plasma-treated nanocrystalline diamond films</b> Ramadoss T. Radhika, Niranjan Senthil Arun Kumar, Kamatchi Jothiramalingam Sankaran Ravikumar Dumpala, S. Dash, M. S. Ramachandra Rao, <a href="#">Dakshanamoorthy Arivuoli</a>, Ashok Kumar Tyagi, Nyanhua Tai and I. Nan Lin <b>Journal of Physics D: Applied Physics</b>, 46(42) 2013, 425304 (Cover page article)</p>
16	<p><b>Tribological properties and deformation mechanism of TiAlN coating sliding with various counterbodies</b> Radhika Ramadoss, Niranjan Senthil Arun Kumar, Ramanathaswamy Sathish Pandian, Sitaram K. Dash, T. R. Ravindran, <a href="#">Dakshanamoorthy Arivuoli</a> and Ashok Kumar Tyagi <b>Tribology International</b>, 66 (2013) 143-149</p>
17	<p><b>High intense violet luminescence in fluorine doped zinc oxide (FZO) thin films deposited by aerosol assisted CVD</b> Muthukumar Anusha and <a href="#">Dakshanamoorthy Arivuoli</a> <b>Journal of Alloys and Compounds</b>, 580 (2013) 131-136</p>
18	<p><b>Studies on mechanical properties of titanium aluminium nitride coatings</b> Radhika, R and <a href="#">Arivuoli D.</a>, <b>Indian Journal of Physics</b>, 87(12) 2013, 1199-1206</p>
19	<p><b>Wear mechanism of CrN/NbN superlattice coating sliding against various counterbodies</b> Radhika,R, Kumar N, Dash S, <a href="#">Arivuoli D</a>, Tyagi A.K <b>International journal of Refractory Metals and Hard Materials</b> 41 (2013) 547-552</p>
20	<p><b>Nanomechanical studies of doped InGaP/GaAs epilayers</b> Robidas, D, Deepthi.K.R, Arunseshan,C, Attolini, G, Bosi M, <a href="#">Arivuoli D</a> <b>AIP conference Proceedings</b>, 1536 (2013) 513-514</p>
21	<p><b>Synthesis of mesoporous Pt-Ru alloy particles with uniform sizes by sophisticated hard-templating method</b> Karthika.P, Atae-Esfahani.H, Deng.Y.H, Wu,K.C, W. Rajalakshmi, N, Dhathathreyan K.S, <a href="#">Arivuoli,D</a>, Ariga,K, Yamauchi Y <b>Chemistry –An Asian Journal</b>, 8(5) 2013, 902-907</p>

22	<p><b>Hard-templating synthesis of mesoporous Pt-based alloy particles with low Ni and Co contents</b>  Karthika.P, Ataee-Esfahani.H, Deng.Y.H, Wu,K.C, W. Rajalaksmi, N, Dhathathreyan K.S,  <a href="#">Arivuoli,D</a>, Ariga,K, Yamauchi Y  <b>Chemistry Letters, 42(4) 2013, 447-449</b></p>
23	<p><b>Nanomaterials for nonlinear optical (NLO) applications: A review</b>  Sagadevan J. Suresh and <a href="#">Dakshanamoorthy Arivuoli</a>  <b>Reviews on Advanced Materials Science, 30, 2012, 243-253</b></p>
24	<p><b>Size and shape dependence on melting temperature of gallium nitride nanoparticles</b>  Paneerselvam Antoniammal and <a href="#">Dakshanamoorthy Arivuoli</a>  <b>Journal of Nanomaterials, 30(3) (2012) 243-253</b></p>
25	<p><b>A thermodynamical model for the shape and size effect on melting of boron carbide nanoparticles.</b>  Paneerselvam Antoniammal and <a href="#">Dakshanamoorthy Arivuoli</a>  <b>Journal of nanoscience and nanotechnology, 12(2) 2012, 993-1000</b></p>
26	<p><b>Synthesis and characterization of Pb + doped MgO nanocrystalline particles</b>  Sagadevan J. Suresh and <a href="#">Dakshanamoorthy Arivuoli</a>  <b>Digest Journal of Nanomaterials and Biostructures, 6(4), 2011, 1597-1603</b></p>
27	<p><b>Morphological control of porous SiC template by as-synthesised form of mesoporous silica</b>  Selvan,S.T, Aideyab,S.S, Zaidi,S.M.J, <a href="#">Arivuoli,D</a>, Ariga,K, Mori, T, Vinu, A  <b>Journal of Nanoscience and Nanotechnology, 11(8) (2011) 6823-6829</b></p>
28	<p><b>Preparation and characterization of highly ordered mesoporous SiC nanoparticles with rod shaped morphology and tunable pore diameters</b>  Selvan,S.T, Aideyab,S.S, Zaidi,S.M.J, <a href="#">Arivuoli,D</a>, Ariga,K, Mori, T, Vinu, A  <b>Journal of Materials Chemistry, 21(24) (2011) 8792-8799</b></p>
29	<p><b>Bent crystals obtained by low energy plasma enhanced chemical vapour deposition for medical applications</b>  P. Joice Sophia, Ilaria Neri, Vincenzo Guidi and <a href="#">Dakshanamoorthy Arivuoli</a>  <b>Nuovo Cimento della Societa Italiana di Fisica C, 34(4),2011, 461-467</b></p>
30	<p><b>AFM studies of microindented GaN and InGaN</b>  D. Geetha , <a href="#">Dakshanamoorthy Arivuoli</a> and Garamilla Mangamma  <b>Materials Letters, 63(5), 2009, 515-518</b></p>
31	<p><b>Growth and characterization of hydroxyapatite crystals by hydrothermal method</b>  Ashok, M, Kalkura S.N, Sundaram N.M, <a href="#">Arivuoli D</a>  <b>Journal of Materials Science: Materials in Medicine 18(5) 2007)895-898</b></p>
32	<p><b>Mechanical properties of some binary, ternary and quaternary III-V compound semiconductor alloys</b>  Rangaswamy Navamathavan, <a href="#">Dakshanamoorthy Arivuoli</a>, Giovanni Attolini, Claudio Pelosi and Chikyu Choi  <b>Physica B: Condensed Matter, 392(1-2),2007, 51-57</b></p>
33	<p><b>Characterization of surface deformation around Vickers indentations in InGaAsP epilayers on InP substrate</b>  Rangaswamy Navamathavan, Vedaraman Ganesan, <a href="#">Dakshanamoorthy Arivuoli</a>, Giovanni Attolini, Claudio Pelosi and Chikyu Choi  <b>Applied Surface Science, 253(5),2006, 2973-2977</b></p>
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