



**Dr. G. RAVI**  
**Vice-Chancellor**

#### **HIGHLIGHTS OF ACADEMIC MILE STONES:**

- Awarded **D.Sc.**, (Doctor of Science) in Physics in 2018.
- Selected & attended for **LEAP** (Leadership for Academicians) by MHRD-2019.
- Selected for prestigious **FRS** (Fellow Royal Society), UK in 2021.
- Awarded most prestigious **JSPS** and performed **PDF** at Japan (2002-2004).
- Published **395** research papers in highly reputed International journals.
- Average impact factor- :**3.68** Citations-**6819**; h-index-**40**; i-10 index-**181**.
- Number of Publications in 2022: **24** with average Impact factor: **5.35**
- Number of **Patents Granted-1; Published-3; filed- 4**
- **Papers presented** in International/National Conferences-**363**.
- Number of **books** as chapters written-**5**
- Number of **Awards** received- **22**
- **Guidance: PDF-2; PhD-25; M.Phil-49; M.Sc-60**
- Visited **22 countries** across all the **continents** for research purpose.
- **Invited lectures** delivered- **45**
- **Editor** in International Journals – **2**
- **Ph.D** thesis **evaluated-56**; Ph.D **viva** conducted -**60**
- Executed **10 projects** with the worth of **403.1 lakhs**.
- **Devices** fabricated from research and delivered to society – **5**
- Number of **conferences/seminars/events organized -30**
- **Membership** in professional bodies –**10**
- As Head of Physics the **h-index** of the department increased from **28 to 66**
- As Dean Industry-consultancy, **small scale industry** is established in the campus.

**Academic Qualifications: Ph.D., PDF(JSPS), D.Sc., FRSC, FASCh.**

Sl. No	Degree	University/Institution	Year of Passing	Subject	Class/ Grade Obtained
1.	D.Sc.	Alagappa University, Karaikudi	2018	Physics	Highly commended
2.	Ph.D.	Anna University, Chennai	1995	Physics	Highly commended
3.	M.Phil.	Anna University, Chennai	1990	Physics	First Class
4.	M.Sc.	Bharathidasan University	1989	Physics	First Class
5.	B.Sc.	Bharathidasan University	1986	Physics	First Class
6.	PDF (JSPS)	National Institute for Materials Science, Japan	Apr.2002- Mar.2004	Physics	JSPS Award
7.	Visiting Professor	Shizuoka University, Japan	Aug. – Nov. 2012	Physics	
8.	Honorable Guest Professor	Shizuoka University, Japan	April 2014 April 2016 April 2018 April 2019 April 2021	Physics	

**Teaching Experience: 27 Years & 6 months**

S.No	Institution	Position	Period	
			From	To
1	Alagappa University	Lecturer, Crystal Research Centre	Feb.1995	Nov.2004
2	Alagappa University	Reader, Dept. of Physics	Dec.2004	Nov.2007
3	Alagappa University	Associate Professor in Physics	Dec.2007	Nov. 2010
4	Alagappa University	Professor, Dept. of Physics	Dec. 2010	Till date

**Research Experience: 32 Years****Additional Responsibilities**

1. **Head**, Department of Physics, Alagappa University, Karaikudi
2. **Dean**, Industry & Consultancy
3. **Director**, Internal Quality Assurance Cell (IQAC)
4. **Chairperson**, School of Physical Sciences
5. **Member**, Senate, Alagappa University, Karaikudi
6. **Member**, NAAC Steering Committee, Alagappa University, Karaikudi
7. **Member**, Research Advisory Committee, Alagappa University, Karaikudi
8. **Chairman**, Board of Studies, Department of Physics, Alagappa University, Karaikudi
9. **Co-ordinator**, UGC-SAP & DST-FIST **Deputy co-ordinator**, DST-PURSE
10. **Institute Co-ordinator**, MHRD-SPARC
11. **Member**; NIRF, USIC, IPR & Ranking cell

## Areas of Research

1. Nano materials synthesis and Thin Films preparation for supercapacitors, Photocatalytic, sensor and solar cell applications
2. Crystal growth of organic & inorganic materials
3. Opto-electronics and E-O modulator –Devices

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	2	--
	Ph.D. Guide/Co-Guide	18/7	3/3
	M.Phil.	49	01
Project	PG	60	04
	UG / Others	--	--

## Publications

Journals		Conferences		Others
International	National	International	National	Books / Chapters / Monographs / Manuals
341	53	171	192	5

<b>h-index</b>	:	<b>40</b>
<b>i-10 index</b>	:	<b>182</b>
<b>Total Citations</b>	:	<b>6842</b>

## Patents : Granted-1; Published-3; Filed-4

S.No	Title	Author(s)	Application Number	Filing Date
1.	An Improved quaternary chalcogenide material and a method of manufacture thereof	<b>G.Ravi et al</b>	202041055941 TEMP/E- 1/62206/2020- CHE CBR No.43478.	23/12/2020 Granted No. 389221 Granted on 14.02.2022
2.	A heterostructured (SmCoO <sub>3</sub> /RGO) material and a method of manufacture there of	<b>G.Ravi et al</b>	202141008342 /TEMP/E- 1/9115/2021- CHE CBR No. 7232	27/02/2021

3.	Influence of nano silica on the growth and yield of maize crop	<b>G.Ravi et al</b>	202141013142 /TEMP/E-1/15077/2021-CHE CBR No 11076.	25/03/2021
4.	Hydrogen Free Method of Growing Carbon Nanorods	<b>G.Ravi et al</b>	202141018296 /TEMP/E-1/20113/2021-CHE CBR No. 14513	20/04/2021
5.	Improved quaternary chalcogenide Cu <sub>2</sub> NiSnS <sub>4</sub> material and manufacturing method thereof	<b>G.Ravi et al</b>	10-2021-0066048 DPP-2021-0130-KR 24/05/2021	24/05/2021
6.	Heterostructured (SmCoO <sub>3</sub> /rGO) material and its manufacturing method	<b>G.Ravi et al</b>	DPP-2021-0367-KR,10-2021-0068885, 28/05/2021	28/05/2021
7.	Morphological evolution of carnation flower like cu <sub>2</sub> cosns <sub>4</sub> battery type electrodes and preparation methods thereof	<b>G.Ravi et al</b>	202241042493 /TEMP/E-1/48170/2022-CHE CBR No.29579	25/07/2022

### Funded Research Projects

#### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	TNSC&ST	1997	1999	Fabrication of Electro-Optical devices using DKDP Crystals	1.97
2.	TNSC&ST	1995	1999	Water quality assessment based on crystal of trifluorides of lanthanum	3.60
3.	AICTE	1998	2001	Growth and Characterization of Organic NLO crystals for EO Modulators	10.0
4.	DST	2007	2011	A Venture for Developing Electro-Optic Modulator from DAST Single Crystals	25.0
5.	UGC	2011	2015	Preparation of ZnO nanostructure thin films by spin coating method of spintronics and optical applications	13.0

6.	DST-SERB (EMR)	2018	2021	Graphene oxide decorated metal oxide thin films on flexible substrates for high performance electrochromic and super capacitors applications	35.6
7.	MHRD-SPARC	2019	2022	2D QDs( two Dimensional QDs): Synthesis and Applications in Electroluminescent diodes, Sensors and Solar cells.	59.93
8.	MHRD-RUSA	2019	2021	Development of pure and graphene decorated metal oxides/sulphides based nanostructured materials for sustainable energy and sensor applications	5.0

### Combined Department Projects: (Completed): As Active Member

S. No	Agency	Period		Budget (Rs. In lakh)
		From	To	
1.	UGC-SAP (DRS I)	2004	2009	82.25
2.	UGC-SAP (DRS II)	2009	2014	70.50
3.	DST FIST (Level I)	2005	2009	35.00
4.	DST-PURSE	2011	2014	600.00

### Funded Research Projects (As Co-ordinator)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC-SAP (DRS III)	2015	2020	Preparation of crystals, Thin films and Battery materials for devices	105
2	DST FIST Level-II	2016	2021	Growth and study of different metal oxide thin films for gas sensors and memory devices	144
3	DST-PURSE Deputy co-ordinator	2017	2020	Infrastructure development for all Science Departments	700

## Consultancy Projects

S. No	Agency	Period		Project Title	Amount Earned (Rs. )
		From	To		
1.	Universities, Colleges, Institutions	2007 (June)	2022 (July)	Consultancies on Characterization	~1,40,00,000

## Distinctive Achievements / Awards / Recognition

1. Senior Research Fellow (SRF)- CSIR, Govt. of India, 1993
2. Young Researcher Award- (IUMRS-ICA), IISc., Bangalore, India, 1998
3. Young Scientist Award- ICCG-13, Kyoto, Japan, 2001
4. Young Invited Researcher Award, Cheju, Korea (ICPOP), 2001
5. Invited Special Researcher, NIMS, Japan, Nov. 2001-March 2002
6. JSPS Award, Japan Society for Promotion of Science, Japan, April 2002-March 2004
7. Invited Special Researcher, NIMS, Japan, June-Nov. 2004.
8. Best Researcher Award, Alagappa University, 2005
9. Invited Special Researcher, NIMS, Japan, Jan.- Feb. 2006
10. Visiting Professor, Shizuoka University, Japan, Aug.-Nov. 2012
11. Honorable Guest Professor, Shizuoka University, Japan, April 2014
12. Alagappa Excellence Award for Research (2015-2016), Alagappa University, 2016
13. Honorable Guest Professor, Shizuoka University, Japan, April 2016
14. JSPS Invitation Fellowship, Japan, Nov.-Dec. 2016
15. Appreciation Award, Alagappa University, Karaikudi, Feb. 2017
16. Honorable Guest Professor, Shizuoka University, Japan, April 2018
17. Honorable Guest Professor, Shizuoka University, Japan, April 2019
18. Vallal Alagappan Research recognition Award, Alagappa Univ. Jan. 2021
19. Dr. APJ Abdul Kalam Lifetime Achievement National Award, 2021
20. FRSC Academic Award, 2021
21. Honorable Guest Professor, Shizuoka University, Japan, April 2021- Mar.2023
22. Fellow Academy of Sciences Chennai (FASCh), 2021.

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 30

## Events Participated

Conferences/ Seminars / Workshops: 363; Other Training Programs: 06

## Overseas Exposure/Visits

S.No	Country Visited	Duration of Visit	Month & Year	Purpose of Visit
1.	Bangladesh	10 days	Oct. 1999	Dhaka, Invited talk in the Int. conference
2.	Japan	14 days	Aug. 2000	Tohoku University, Sendai, Invited talk & Chair session in Int. conference (ACCG)
3.	Singapore	2 days	Sep. 2000	National University of Singapore, Lab visit
4.	Japan	7 days	July 2001	Presented papers in ICCG-13, Int. conf. at Kyoto
5.	Korea	12 days	Aug. 2001	Cheju, Invited under Young Scientist Programme
6.	Japan	5 months	Nov.2001 - Mar.2002	Invited Special Researcher, NIMS, Tsukuba
7.	Japan	2 years	Apr.2002- Mar.2004	JSPS Fellow, NIMS, Tsukuba
8.	USA	15 days	Aug. 2002	Seattle, Presented papers in Int. Conf.
9.	Canada	2 days	Aug. 2002	Vancouver, Lab visit
10.	Sri Lanka	1 day	Oct. 2002	Colombo, Lab visit
11.	Germany	2 days	June 2003	Bonn Univ., Bonn, Invited lecture
12.	France	4 days	June 2003	Strasbourg, Presented papers in MRS International Conference
13.	Switzerland	3 days	June 2003	Zurich, Quantum Electronics Lab visit
14.	Malaysia	2 days	Oct. 2003	Kuala Lumpur, Lab visit
15.	Japan	6 months	June- Nov.2004	Invited Special Researcher, (NIMS), Tsukuba
16.	England	3 days	Aug. 2004	Oxford Univ., Lab visit (Clarendon Lab)
17.	Italy	2 days	Aug. 2004	Univ. of Rome, Lab visit
18.	France	4 days	Aug.2004	Grenoble, Presented papers in ICCG
19.	Netherlands	2 days	Aug. 2004	Amsterdam, Lab visit
20.	Belgium	1 day	Aug. 2004	Brussels, Lab visit
21.	Germany	1 day	Aug. 2004	Aachen University, Lab visit
22.	China	15 days	Oct. 2005	Beijing, Papers Presented & Lab visit (CAS)
23.	Japan	2 months	Jan.-Feb. 2006	Invited Special Researcher (NIMS)

24.	Taiwan	3 days	Mar. 2006	Taipei, Delivered lecture (NUT)
25.	Mexico	3 days	Aug. 2010	Mexico city & Cancun, Delivered lectures
26.	Brazil	1 day	Aug. 2010	Sao Paulo, Lab visit
27.	South Africa	2 days	Aug. 2010	Johannesburg, Lab visit
28.	Japan	4 months	Aug.- Nov.2012	Visiting Professor, RIE, Shizuoka University
29.	Australia	4 days	Oct. 2012	Brisbane, Papers Presented & Lab visit, Queensland University
30.	Thailand	2 days	Nov. 2012	Bangkok, Lab visit
31.	Japan	5 days	2014 & 2015	Shizuoka University, Japan, Honorable Guest Professor
32.	Japan	2 months	Nov.-Dec. 2016	Shizuoka University, Japan, JSPS Invitation Fellow
33.	Australia	7 days	Feb- Mar. 2019	Monash University, Australia, LEAP (MHRD) Program.
34.	Spain	3 days	Sep 23-25, 2019	Invited Talk in 6 <sup>th</sup> Int. Conference on Photonics (PHRONESIS), Barcelona.

## Membership in

### Professional Bodies

1. Life member in Indian Crystal Growth Association
2. Life member in Indian Physics Association (IPA)
3. SPIE: International Society for Optical Engg. USA
4. Life member - Indian National Science Congress
5. Life member-Materials Research Society of India (MRSI)
6. Life member-Japan Society for Promotion of Science (JSPS), Japan.
7. Life member-National Institute for Materials Science (NIMS), Japan.
8. Life member-Bose Science Society –India
9. Fellow Member – Royal Society of Chemistry, UK.
10. Fellow Member – Academy of Sciences, Chennai.

### Editor in International Journals

1. Journal of Nanomaterials, Hindawi (I.F: 2.986)
2. Journal of Sol-Gel Science and Technology, Springer (I.F: 2.326)

### **Editorial Board**

1. Azhagu News Letter
2. Department News Letter
3. Department Journal

### **Advisory Board**

1. Internal Quality Assurance Cell (IQAC): Director
2. Intellectual Property and Patent Cell : Member
3. Instrumentation Centre : Member

### **Academic Bodies (such as Board of Studies etc.,)**

1. Board of Studies-Chairman: M.Sc., Physics, Affiliated colleges, Alagappa University.
2. Board of Studies-Chairman: M.Sc., Physics (Regular & DDE), Alagappa University.
3. Board of Studies-Member: B.Sc., Physics, Affiliated colleges, Alagappa University.
4. Board of Studies –Member: M.Sc Physics-MS University, Tirunelveli.
5. Board of Studies –Member: B.Sc Physics-MS University, Tirunelveli.
6. Board of Studies –Member: M.Sc Physics-Bharathidasan University, Trichy.
7. Board of Studies –Member: M.Sc Physics-Bharathiar University, Coimbatore.
8. Board of Studies –Member: M.Sc Physics-Periyar University, Salem.
9. Board of Studies –Member: M.Sc Physics-Annamalai University, Chidambaram.
10. Board of Studies –Member: M.Sc Physics-Madurai Kamaraj University, Madurai.
11. Board of Studies –Member: M.Sc Physics – Avinashilingam Institute, Coimbatore.
12. Passing Board- Member: B.Sc., Thasim Beevi College for Women, Kilakarai.
13. Member – Academic Council – Karpagam University, Coimbatore.