



## Dr. G. RAVI

### Professor & Head

#### Contact

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#### Academic Qualifications: M.Sc., M.Phil., Ph.D., PDF(JSPS),D.Sc.,

| Sl. No | Degree                | University/Institution                           | Year of Passing       | Subject | Class/ Grade Obtained |
|--------|-----------------------|--|-----------------------|---------|-----------------------|
| 1.     | B.Sc.                 | Bharathidasan University                         | 1986                  | Physics | First                 |
| 2.     | M.Sc.                 | Bharathidasan University                         | 1989                  | Physics | First                 |
| 3.     | M.Phil.               | Anna University, Chennai                         | 1990                  | Physics | First                 |
| 4.     | Ph.D.                 | Anna University, Chennai                         | 1995                  | Physics | Highly commended      |
| 5.     | D.Sc.,                | Alagappa University,<br>Karaikudi                | November<br>2018      | Physics | Highly commended      |
| 6.     | PDF                   | Japan Society for Promotion<br>of Science, Japan | Apr.2002-<br>Mar.2004 | Physics |                       |
| 7.     | Visiting<br>Professor | Shizuoka University, Japan                       | Aug. – Nov.<br>2012   | Physics |                       |

|    |                                 |                            |  |         |  |
|----|---------------------------------|----------------------------|--|---------|--|
| 8. | Honorable<br>Guest<br>Professor | Shizuoka University, Japan | April 2014<br>April 2016<br>April 2018<br>April 2019 | Physics |  |
|----|---------------------------------|----------------------------|--|---------|--|

### Teaching Experience: 23Years

| 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, Dept. of Physics | Dec.2007  | Nov. 2010 |
| 4    | Alagappa University | Professor, Dept. of Physics           | Dec. 2010 | Till date |

### Research Experience: 27Years

#### Additional Responsibilities

1. **Head**, Department of Physics, Alagappa University, Karaikudi
2. **Dean**, Industry & Consultancy
3. **Member**, Senate, Alagappa University, Karaikudi
4. **Member**, NAAC Steering Committee, Alagappa University, Karaikudi
5. **Member**, Research Advisory Committee, Alagappa University, Karaikudi
6. **Chairman**, Board of Studies, Department of Physics, Alagappa University, Karaikudi
7. **Co-ordinator**, UGC-SAP & DST-FIST **Deputy co-ordinator**, DST-PURSE
8. **Co-ordinator**, UGC-SPARC

#### Areas of Research

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

#### Research Supervision / Guidance

| Program of Study |                      | Completed | Ongoing |
|------------------|----------------------|-----------|---------|
| Research         | Ph.D. Guide/Co-Guide | 15/3      | 5/3     |
|                  | M.Phil.              | 45        | 2       |
| Project          | PG                   | 48        | 0       |
|                  | UG / Others          | -         | -       |

## Publications

| Journals      |          | Conferences   |          | Others                                  |
|---------------|----------|---------------|----------|---|
| International | National | International | National | Books / Chapters / Monographs / Manuals |
| 188           | 52       | 139           | 143      | 3                                       |

|                 |   |      |
|-----------------|---|------|
| h-index         | : | 28   |
| i-10 index      | : | 73   |
| Total Citations | : | 2750 |

## 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 spintronic and optical applications | 13.0                  |

### Combined Department Projects: (Completed)

| 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 |

### Consultancy Projects

| S. No | Agency                               | Period         |                | Project Title                     | Amount Earned (Rs. ) |
|-------|--------------------------------------|----------------|----------------|-----------------------------------|----------------------|
|       |                                      | From           | To             |                                   |                      |
| 1.    | Universities, Colleges, Institutions | 2007<br>(June) | 2019<br>(June) | Consultancies on Characterization | 1,17,88,548          |

### Ongoing Projects (As Co-ordinator)

| S. No | Agency                         | Period |      | Project Title  | Budget (Rs. In lakhs) |
|-------|--------------------------------|--------|------|--|-----------------------|
|       |                                | From   | To   |  |                       |
| 1     | UGC-SAP (DRS III) Co-ordinator | 2015   | 2020 | Preparation of crystals, Thin films and Battery materials for devices  | 105                   |
| 2     | DST FIST Level-II Co-ordinator | 2015   | 2020 | 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                   |
| 4     | 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                  |

### Patents

1. Nil

### Distinctive Achievements / Awards

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

#### Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: **23**

#### Events Participated (optional)

**Conferences/ Seminars / Workshops: 281**

**Other Training Programs : 06**

**Overseas Exposure / Visits**

| S.No | Countries 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           | 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. Conference                   |

|     |              |          |                      |   |
|-----|--------------|----------|----------------------|---|
| 9.  | Canada       | 2 days   | Aug. 2002            | Vancouver, Lab visit  |
| 10. | Sri Lanka    | 1 day    | Oct. 2002            | Columbu, Lab visit  |
| 11. | Germany      | 2 days   | June 2003            | Bonn Univ., Bonn, Invited lecture                             |
| 12. | France       | 4 days   | June 2003            | Strasbourg, Presented papers in MRS Int. 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-<br>Nov.2004    | Invited Special Researcher, (NIMS)                            |
| 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.<br>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.-<br>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 &<br>2015       | Shizuoka University, Japan, Honorable Guest Professor         |
| 32. | Japan        | 2 months | Nov.-Dec.<br>2016    | Shizuoka University, Japan, JSPS Invitation Fellow            |
| 33. | Australia    | 7 days   | Feb25-<br>Mar.4 2019 | Monash University, Australia , LEAP Program.                  |

#### Keynote Address/ Plenary Lectures:

| S.No | Name of the Programme   | Organiser of the Programme          | Level: International/National | Date                   |
|------|---|-------------------------------------|-------------------------------|------------------------|
| 1.   | 23 <sup>rd</sup> national seminar on crystal growth and applications. | Bharathiar University<br>Coimbatore | N                             | 28- 30 January<br>2019 |
| 2.   | National Conference on recent   | Pachayappa's College,               | N                             | 23 Feb 2018            |

|     |   |   |   |                  |
|-----|---|---|---|------------------|
|     | trends in physics of materials - 2018 (NCRTPM-2018)   | Chennai.  |   |                  |
| 3.  | State level conference on based research work in nano technology  | Sri Paramakalyani College, Alwarkurichi                             | N | 9-10 Feb 2018    |
| 4.  | 22 <sup>nd</sup> National seminar on crystal growth and applications (XXII NSCGA-2018)  | Sacred Heart College, Tirupathur                                    | N | 29-31 Jan 2018   |
| 5.  | Formation of thin film nanostructures of WO <sub>3</sub> and MoO <sub>3</sub> and their characterizations<br>4 <sup>th</sup> International Conference on Nanoscience and Nano technology (ICONN 2017) | SRM University, Chennai   | I | 9-11 August 2017 |
| 6.  | Special Lecture presentation at Nagoya Institute of Technology  | Nagoya, Japan   | I | Dec. 2 2016      |
| 7.  | The 18 <sup>th</sup> Takayanagi Kenjiro Memorial Symposium toward Advanced Imaging Science Creation   | Shizuoka University, Japan  | I | Nov. 15-16 2016  |
| 8.  | Delivered Invited Talk, International Symposium toward the Future of Advanced Researches in Shizuoka University, Japan  | Shizuoka University, Japan  | I | Jan. 27-28, 2015 |
| 9.  | International interdisciplinary Conference on the Frontier of Crystallography (IICFC-14)  | Mangalore University, India   | I | Dec. 29-30 2014  |
| 10. | Industry and Consultancy Cell & Centre for University Business Collaboration  | Alagappa University, Karaikudi                                      | I | Apr. 28 2014     |
| 11. | National Conference on Advanced Materials and its Applications (NCAMA-2014)   | Annamalai University, Tamilnadu                                     | N | Apr. 4 & 5 2014  |
| 12. | International Conference on Materials and Characterization Techniques   | VIT University, Vellore,  | I | Mar 10-12, 2014  |
| 13. | National Conference on Recent Advances in Nanomaterials for Sensor Applications (NANOSE-14)   | Dept. Bioelectronics & Biosensors<br>Alagappa University, Karaikudi | N | Mar 6-7, 2014    |
| 14. | International Workshop on   | Department of Physics   | I | 2014             |

|     |   |   |   |                     |
|-----|---|---|---|---------------------|
|     | Advanced Materials (IWAM-14)  | Alagappa University, Karaikudi  |   |                     |
| 15. | Thermally Evaporated WO <sub>3</sub> , MoO <sub>3</sub> nanostructures and their characterization | Vellore Institute of Technology, Vellore                                    | I | Mar 10-12, 2014     |
| 16. | XVIII National Seminar on Crystal Growth  | SSN College of Engineering, Tamil nadu                                      | N | Feb 24-26, 2014     |
| 17. | Improving Device Characteristics Of Optical Crystals  | Central University of Tamilnadu, Thiruvarur.                                | N | Feb 24-26, 2014     |
| 18. | National Conference on Recent Trends in Advanced Materials (NCRTAM-13)                            | PSG college of Technology, Coimbatore                                       | N | Dec 16-17, 2013     |
| 19. | Electro-Optic Devices Using Optical Crystals  | Karunya University, Coimbatore  | N | Dec.17, 2013        |
| 20. | International Workshop on Crystal Growth and Characterization of Advanced Materials and Devices   | Anna University, Chennai  | I | 16-19 December 2013 |
| 21. | Fabrication Of Electro-Optic Devices Using The Grown Organic And Inorganic Crystals               | Anna University, Chennai  | N | July 24- 26, 2013   |
| 22. | National Seminar on Recent Trends in Crystal Growth & Nanomaterials (NSCGNM-2013)                 | PG and Research Department of Physics, National College, Trichy             | N | Mar 13-15, 2013.    |
| 23. | International Conference on Recent Trends in Advanced materials (ICRAM-2012)                      | VIT University, Tamilnadu   | I | Feb 20-22 2012      |
| 24. | Recent Trends in Functional Materials (FUNMAT-12)   | Ultra College of Engineering and Technology                                 | N | Feb 17 2012         |
| 25. | International Conference Advanced Materials (ICAM-2011)   | PSG College of Technology, Coimbatore                                       | I | Dec 12-16 2011      |
| 26. | International conference on advancement of Nanoscience and nanotechnology (ICOANN -2010)          | Department of Nanoscience and nanotechnology, Alagappa university Karaikudi | I | 2010                |
| 27. | National conference on recent trends in advanced energy materials                                 | Department of physics, Alagappa University, Karaikudi                       | N |                     |
| 28. | One day conference on Nano materials  | Dept. of Electrical Eng., Cinvestav   | I | Aug 12-14 2010      |



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|-----|--|--|---|----------------|
|     |  | Mexico   |   |                |
| 29. | National conference on recent trends in crystal growth, thin films and nano structured materials | Department of physics, Aditanar college of arts and science, Tiruchendur | N | Aug 5 & 6 2009 |
| 30. | Optical data storage using MnSLN   | National Taiwan University, Taiwan                                       | I | Feb 19-21 2006 |
| 31. | Photorefractive properties of LN crystals  | Chinese Academy Sciences, Beijing, China                                 | I | 21.10.2005     |
| 32. | Asian Conference on Crystal Growth and Crystal Technology  | Sendai, Japan  | I | Aug 29 - Sep 1 |
| 33. | International Conference on Materials Science  | Dhaka, Bangladesh  | I | Oct 23-27 1999 |

## 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

### Editorial Board

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

### Advisory Board

1. IQAC: 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-Member: B.Sc., Physics, Affiliated colleges, Alagappa University.
3. Board of Studies –Member: M.Sc Physics-MS University, Tirunelveli.
4. Board of Studies –Member: M.Sc Physics-Bharathidasan University, Trichy.
5. Board of Studies –Member: B.Sc., M.Sc. Physics, Lady Doak College, Madurai.

6. Passing Board- Member: B.Sc., ThasimBeevi Collegefor Women,Kilakarai.

### Resource persons in various capacities

Number of Invited / Special Lectures delivered: **33**

### Others

1. Articles published in Newspapers / Magazines : 3
2. Products developed : 2
3. No. of PhD Thesis evaluated : 44
4. No. of PhD Public Viva Voce Examination conducted : 44
5. Sequences submitted in GenBank : Nil

\*\*Social Interests and Initiatives / Articles in News papersetc can also be included

### Conferences / Seminars / Workshops organized (National / International) in leading roles:

- ACT NEXT :Noble prize in Physics 2018 at Department of Physics, Alagappa University on 5<sup>th</sup> April 2019
- National conference on Advanced materials for sustainable Energy and sensors (NCAMSES – 2019) Alagappa University on 20-22, March,2019
- ACT NEXT :Noble prize in Physics 2017 at Department of Physics, Alagappa University on 28<sup>th</sup> March 2018.
- International Conference on momentous role of nanomaterials in renewable energy devices (IC MNRE 2018 ) Alagappa University, Karaikudi, 1-2 March 2018
- Business Oriented Analytical Research and Development (BOARD-2018) at Department of Physics, Alagappa University during 31<sup>st</sup> January – 1<sup>st</sup> February 2018.
- National Conference on Futuristic Materials (NCFM-2017) at Department of Physics, Alagappa University during 27 & 28<sup>th</sup> March 2017.
- National Theme Meet on University- Industry Interface 2017 (NTM U21-2017) Alagappa University during 20<sup>th</sup> September 2017.
- ACT NEXT :Noble prize in Physics 2016 at Department of Physics, Alagappa University on 28<sup>th</sup> April 2017.
- Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT-2017) at Department of Physics, Alagappa University during 2<sup>nd</sup> & 3<sup>rd</sup> March 2017.

- National Seminar on Synthesis, Characterization and Applications of Advanced Materials (AMR-2017) at Department of Physics, Alagappa University during 19 January 2017.
- Organized a “National Seminar on “Recent Advancements in Frontier Areas of Materials Science” at Department of Physics, Alagappa University, Karaikudi, during 23-24<sup>th</sup> March, 2016.
- Alagappa University Celebrates Themed Nobel Excellence Talks – 2015 ACT NEXT-2015, at Department of Physics, Alagappa University on 18<sup>th</sup> March 2016.
- International Workshop on Advanced Materials -2014 (IWAM2014) at Department of Physics, Alagappa University during 20-21 March 2015.
- National Workshop on Characterization Techniques (NWCT-2, 2013)” at Department of Physics, Alagappa University during 24 & 26, March 2013.
- National Workshop on Characterization Techniques (NWCT-1, 2012)” at Department of Physics, Alagappa University during 24 & 26, March 2012.
- International Workshop on Advanced Energy Materials (IWAEM-2012)” at Department of Physics, Alagappa University during 9-10, February 2012.
- State Level Workshop on Structure solving by Powder X-ray diffraction (SLWSSP-XRD 2011) at Department of Physics, Alagappa University during 26-27, July 2011.
- National Conference on Recent Trends in Advanced Energy Materials at Department of Physics, Alagappa University during 10<sup>th</sup>& 11<sup>th</sup> March, 2010.
- Organized a National Workshop on “Theory and Practice of XRD Techniques” as a member of organizing committee in the School of Physics, Alagappa University during July13-17, 2009.
- National Workshop on “Crystal Growth and Characterization” at Department of Physics, Alagappa University on March 16, 2009.
- National Workshop on “Recent Advances in Materials Science” at Department of Physics, Alagappa University on March 07, 2008
- XXX Indian social Science Congress, at Department of Physics, Alagappa University during 27- 31 December 2006
- National Seminar on Recent trends in Materials Science, at Department of Physics, Alagappa University on 3<sup>rd</sup> May, 1999.

### Recent Publications (Last 5 Years)

| S. | Title of the Article | Author(s) | Name of the | Interna | Impact |
|----|----------------------|-----------|-------------|---------|--------|
|----|----------------------|-----------|-------------|---------|--------|

| No |  |  | journal Vol. No. & Page  | tional / National | Factor   |
|----|--|--|--|-------------------|----------|
| 1. | Electrochemical performances of monodispersed spherical CuFe <sub>2</sub> O <sub>4</sub> nanoparticles for pseudocapacitive applications | B.Saravanakumar, S.P.Ramacahndran, <b>G.Ravi</b> , V.Ganesh, Ramesh, K.Guduru, R.Yuvakkumar                    | Vacuum (2019)  | I                 | IF-2.515 |
| 2. | Different rare earth (Sm, La, Nd) doped magnetron sputtered CdO thin films for optoelectronic applications                               | P. Sakthivel, S. Asaithambi, M. Karuppaiah, S.Sheik Fareed, R. Yuvakkumar, <b>G. Ravi.</b>                     | Journal of Materials Science: Materials in Electronics (2019) 30(10) pp 9999–10012 | I                 | IF-2.324 |
| 3. | Superior electrochemical water oxidation of novel NiS@FeS <sub>2</sub> nanocomposites  | B.Jansi Rani, P. Aiswaryakanjana, G. Ravi, R. Yuvakkumar, B Saravanakumar                                      | Materials Science in Semiconductor Processing (2019) 101, 174-182.                 | I                 | IF:2.722 |
| 4. | Perovskite BiFeO <sub>3</sub> nanocatalysts for electrochemical water oxidation  | B. Jansi Rani, <b>G. Ravi</b> , R. Yuvakkumar, M. Thambidurai.   | Journal of Sol-Gel Science and Technology (2019) 91(2) pp 247–254                  | I                 | IF-1.745 |
| 5. | WO <sub>3</sub> nanocubes for photoelectrochemical water-splitting applications  | B.Jansi Rani, M.Praveen Kumar, S. Ravichandran, G. Ravi, V. Ganesh, Ramesh K. Guduru, R. Yuvakkumar, S.I. Hong | Journal of Physics and Chemistry of Solids (2019) 134 Pp 149-156.                  | I                 | IF-2.752 |

|     |  |  |  |   |          |
|-----|--|--|--|---|----------|
| 6.  | Electrochemical Performance of $\beta$ -Ni@Ni(OH) <sub>2</sub> Nanocomposite for Water Splitting Applications  | BalasubramanianJan siRaniNagasundaram DhivyaGanesanRaviS hankaracharya S. ZanceRathinamYuva kkumar*Sun Ig Hong | ACS Omega (2019) 46 10302-10310                              | I | IF-2.584 |
| 7.  | Influence of radiofrequency power on structural, morphological, optical and electrical properties of magnetron sputtered CdO: Sm thin films as alternative TCO for optoelectronic applications | P. Sakthivel, R. Murugan, S. Asaithambi, M. Karuppaiah, S. Rajendran, <b>G. Ravi.</b>                          | Journal of Alloys and Compounds 765 (2018) 146-157           | I | IF-4.175 |
| 8.  | Preparation and electrochemical characterization of Mo <sub>9</sub> O <sub>26</sub> nanopowders for supercapacitors applications   | B Saravanakumar, R Shobana, G Ravi, V Ganesh, R Yuvakkumar   | Nano-Structures & Nano-Objects100340 (2019).                 | I | -----    |
| 9.  | Novel SmMn <sub>2</sub> O <sub>5</sub> hollow long nano-cuboids for electrochemical supercapacitor and water splitting applications  | B. Jansi Rani, G. Ravi , R. Yuvakkumar, S.I. Hong  | Vacuum 166 (2019) 279–285                                    | I | 2.515    |
| 10. | BiVO <sub>4</sub> Nanostructures for Photoelectrochemical (PEC) Solar Water Splitting Applications   | B. Jansi Rani , M. Praveenkumar, S. Ravichandran, G. Ravi , Ramesh K. Guduru, R. Yuvakkumar                    | Journal of Nanoscience and Nanotechnology 19 (2019)7427–7435 | I | IF:1.354 |

|     |   |   |  |  |          |
|-----|---|---|--|--|----------|
| 11. | Ultrafine M-doped TiO <sub>2</sub> (M= Fe, Ce, La) nanospherephotoanodes for photoelectrochemical water-splitting applications        | B Jansi Rani,<br>M Praveenkumar,<br>S Ravichandran,<br>V Ganesh, Ramesh K<br>Guduru, G Ravi,<br>R Yuvakkumar  | Materials<br>Characterization<br><b>(2019)</b> 152<br>Pages 188-203                |  | IF:3.220 |
| 12. | Bi <sub>2</sub> WO <sub>6</sub> and FeWO <sub>4</sub> Nanocatalysts for the Electrochemical Water Oxidation Process                   | BalasubramanianJan<br>si Rani, <b>Ganesan<br/>Ravi</b> ,RathinamYuvak<br>kumar,<br>M Praveenkumar,<br>SubbiahRavichandra<br>n,<br>PaulpandianMuthuM<br>areeswaran, Sun Ig<br>Hong | ACS Omega,<br><b>(2019)</b> 4,<br>5241-5253  |  | IF-2.584 |
| 13. | Organic Daturametel Leaf Extract Mediated Inorganic Rare Earth La <sub>2</sub> O <sub>3</sub> Nanocrystals Formation                  | R Uma Maheswari,<br>R Yuvakkumar,<br><b>G Ravi</b> ,<br>SI Hong   | Journal of<br>Nanoscience and<br>Nanotechnology<br>19 <b>(2019)</b> 4033-<br>4038. |  | IF:1.354 |
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| 22. | Electrochemical and photoelectrochemical water oxidation of solvothermally synthesized Zr-doped $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanostructures              | B. Jansi Rani,<br>M. Praveen Kumar,<br><b>G. Ravi</b> ,<br>S. Ravichandran,<br>Ramesh K. Guduru,<br>R. Yuvakkumar.               | Applied Surface Science<br><b>(2018)</b> ,471, 733-744                              |  | IF-5.155  |
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