**CURRICULUM VITAE**

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| **Dr. R.PADMA SUVARNA**  Professor of Physics &  Director, Sponsored Research  Jawaharlal Nehru Technological University,  Anantapur, Andhra Pradesh-515002, India.  Cell No: +91-9441079332  Email:  padma.physics@jntua.ac.in | E:\RPS-DATA\Padma Suvarna\RESUMES\padma photo.jpg |

**EDUCATIONAL QUALIFICATIONS:**

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| --- | --- | --- | --- |
| **Examination** | **Board/University** | **Year of Passing** | **Percentage of Marks** |
| Ph.D., (physics) | Sri Krishna Devaraya University, Anantapur | 1997-2002 | Awarded |
| M.Phil.,(physics) | Sri Krishna Devaraya University, Anantapur | 1995-97 | 68 |
| M.Sc(Physics) | Sri Krishna Devaraya University, Anantapur | 1992-94 | 69 |
| B.Sc.,(M.P.E) | Sri Krishna Devaraya University, Anantapur | 1989-92 | 82 |
| 10+2 (M.P.C.) | Board of Intermediate Education, Hyderabad | 1987-89 | 70 |
| SSC | Secondary School of Education, Hyderabad | 1986-87 | 82 |

**ACADEMIC AND RESEARCH EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| **Designation** | **Year** | **Institution** |
| Assistant Professor | 1998-2005 | Intell Engg. College, Anantapur. |
| Associate Professor | 2005-2011(3.2.2011) | Intell Engg. College, Anantapur. |
| Associate Professor | 4.2.2011 to 31-12-2014 | JNTUA College of Engineering, Anantapur |
| Professor | 01-01-2015 to till date | JNTUA College of Engineering, Anantapur |

**Administrative Experience :**

* Worked as Head, Physics department, JNTUACE from 2011 to 2022
* Member in Governing Councils of various colleges
* BOS chairman, member for JNTUA, JNTUACEA and also for other affiliated colleges
* Subject expert for paper setting and valuation
* Director, Sponsored Research from March 2022 to till date

**FDPS/WORKSHOPS/ CONFERENCES ORGANIZED:**

* Organized a three days Faculty Development Program on “Effective Teaching Approach to Applied & Engineering Physics” on August 5-7, 2019, Sponsored by TEQIP-III.
* Organized a one day workshop on “Characterization Techniques” on 07-12-2019, Sponsored by TEQIP-III.
* Organized a two day online Faculty Development Program on “Virtual Physics Labs” during 7th to 9th September 2020, Sponsored by TEQIP-III.
* Organized an online national conference on “Advanced Functional Materials” on 17th and 18th December, 2020 Sponsored by TEQIP-III.
* Organized one day national webinar on “Physics Stage Shows” on 27th February 2021.
* Organized one day workshop on “Physics of Materials & Devices” on 10th December, 2021.
* Organised three day International Conference on “Materials Science” during 11-13, April, 2022

**RESEARCH FIELDS**

Materials Science and Electronics

**CONFERENCES and SEMINARS ATTENDED : 29**

**TRAINING PROGRAMMES and WORKSHOPS ATTENDED : 30**

**PAPERS PUBLISHED: 67 ( National -22, International – 45 )**

**BOOK CHAPTERS PUBLISHED : 07**

**PROJECTS UNDERTAKEN:**

* UGC sponsored MRP “ **Synthesis and characterization of nanostructured conducting polymers for the fabrication of lithium batteries” ---- 9.67 lakhs**
* IUAC sponsored Beam Time Project “ Irradiation studies on polymer gels for solar cells

**ADDITIONAL INFORMATION**

* Google Scholar link:[<https://scholar.google.com/citations?user=Wae7IggAAAAJ&hl=en>](https://scholar.google.co.in/citations?user=-PUln7UAAAAJ&hl=en)

**NO. OF PH.D’S SUPERVISED: 16**

As a supervisor: 07

As a co-supervisor: 09

**LIST OF PUBLICATIONS**

1. **R. Padma Suvarna,** K. R. Rao, and K. Subbarangaiah, “*A simple Technique for ac conductivity measurement*” **Bull. Material Science,** 2002, **25(7)**, 647-51 **(I.F: 1.3)**
2. D. SyamalaBai, **R. Padma Suvarna**, K.R.Rao and E.R.Gopal, “*Evaluation of voltage controlled oscillator phase locked loop for the measurement of dielectric constant of liquids*”, **ActaCienciaIndica,** XXVII, 2001, **4**, 285.
3. **R.Padma Suvarna** and K.R.Rao, “*Frequency measurement using the centronics printer port of an IBM compatible PC”***J.Instrum.Soc.India**, 2003, **33(2)**, 87-93 **(I.F: 1.45)**
4. **R.Padma Suvarna,** M.Usha Rani and P.M.Kalyani, “*Parallel Printer Port for Phase Detection*”,**International Journal of Advanced Computer Science and Applications**, 2010, **1(4)**,ISSN 2156-5570**(I.F:1.32)**
5. **R. Padma Suvarna** “*Development of Instrumentation for ac conductivity measurement and Investigations in certain polymers”,***Lab Experiments**, 2003, **3(1)**, 92-94.
6. **R.Padma Suvarna** and Dr. K.RaghavendraRao**,“***PC based AC conductivity measurement*”,**International Journal of Applied Physics,** 2012, **2(2),** 83-94,ISSN 2249-3174**(I.F:1.59)**
7. **R.Padma Suvarna** and M. VijayaBhaskar, “*Multi-phase Sequence Detection System using Micro-controller”***International Journal of Applied Physics**, 2012 **2(3)**, 167-181

ISSN 2249-3174 **(I.F: 1.59)**

1. **R.Padma Suvarna**, K.Jahnavi and K.RaghavendraRao, “*Development of embedded systems to control toxic compounds in textile industries.”***International journal of scientific research** , , 1(5), 115-117, ISSN 2277-8179. (Oct.2012)**(I.F: 5.7)**
2. **R.Padma suvarna,** T**.**Ranjethkumarreddy and T.Subbarao**“***studies on thermalcharacteristics of cow dung powder filled glass –polyester hybrid composites*” **Composites:Part B, ELSE**VIER, 56, 67-672, (January, 2014) **(I.F: 7.63)** [doi.org/10.1016/j.compositesb.2013.08.059](https://doi.org/10.1016/j.compositesb.2013.08.059)
3. **R.Padma Suvarna**, “*Complex impedance spectroscopy of epoxy and polycarbonates”* **International journal of engg. sciences research,** November ,**2013**, ISSN 2230-8504**(I.F:3.005)**
4. **R.Padma Suvarna** “*Study on electrical conductivity of polymers”*, **Contemporary Research in India,**123-124, ISSN 2231-2137 (December, **2013**) **(I.F: 4.58)**
5. **R.Padma Suvarna,**T**.**.Ranjethkumarreddy and T.Subbarao **“***Effect of compressive and flexural properties of cow dung/glass fiber reinforced polyester hybrid composites*” in **Indian journal of advances in chemical science**, Volume 2, No.2, 162-166. ISSN: 2320-898, **2014 (I.F: 4.14)**
6. **R. Padma Suvarna,**T. Ranjethkumarreddy and T. Subbarao“*studies on compositional analysis of cow dung/glass fiber reinforced with polyester hybrid composites***“** in **International journal or nanotechnology and applications**, VoL.4, Issue 4, (August **2014**), 19-22, ISSN: 2278-9391. **(I.F: 4.7)**
7. **R.Padma Suvarna,** Munikrishna reddy Y and Lakshmi Narasappa T “*Ru/Ti Schottky Contacts on n-type In-P (100): Temperature dependence of Current-Voltage (I-V)characteristics*”proceedings of 2nd international conference on nanaomaterials and technologies published in Procedia, Materials **Science**, Elsevier2015, 666-672.
8. VijayaBhaskar, M. and **Padma Suvarna, R.***“Embedded system design for measurement of dielectric constant of conducting polymers at microwave frequencies* “ **International Journal of Development Research,** Vol. 5, Issue, 03, pp. 3778-3781, 2015**(I.F: 0.18)**
9. Y Munikrishna Reddy, **R Padmasuvarna**, T Lakshmi Narasappa, R.Padma and V Rajagopal Reddy **“**Temperature-dependent electricalparameters and current transport mechanisms of Ru/Ti/n-InPSchottky diodes” in **Springers Indian Journal of Physics**, published on May 26th, 2015 ISSN: 0973-1458 **(I.F: 1.24)**
10. Y. Munikrishna Reddy, L. Dasaradha Rao , **R. Padma Suvarna**, V. Rajagopal Reddy, T. Lakshmi Narasappa, P. Sreehith, R. Padma“ *Effect of annealing temperature on the electrical, structural and surface morphological properties of Ru/Ti Schottky contacts on n-type InP*” in Elsevier **Super lattices and Microstructures**, 86, 280-291,(october, **2015**)**(I.F:2.12)**

[doi.org/10.1016/j.spmi.2015.07.068](https://doi.org/10.1016/j.spmi.2015.07.068)

1. Y Munikrishna Reddy, **R.Padma Suvarna,**T Lakshmi Narasappa and V RajagopalReddy “*Analysis of interface state density and series resistance on electrical characteristics of Ru/Ti/n-InPSchottky barrier diodes”.* In **Int.J.New Techno.In Sci&Engg.**2, (August,**2015**) 218-228.

**(I.F:1)**

1. J. Gurusiddappa, W. Madhuri, **R. Padma Suvarna**, K. PriyaDasan, “*Electrical Properties of PEO-Based Electrolytes*” in **International journal of Research in Science, Engineering and Technology** in December Vol. 4, issue 11, (2015), 11447-11454.**(I.F:1.2)**
2. D. SyamalaBai, **R. Padma Suvarna,“***Synthesis, Characterization And Ac Conductivity Studies Of MgoDoped Polymer Nano Composites”*in **International journal of Research in Science, Engineering and Technology,** in Vol. 4, Issue 12, (December,**2015**) ISSN: 2319-8753.**(I.F:1.2)**
3. J. Gurusiddappa, W. Madhuri, **R. Padma Suvarna**, K. PriyaDasan,“*Conductivity and Dielectric Behavior of Polyethylene Oxide-Lithium Perchlorate SolidPolymer Electrolyte Films*” in **Indian Journal of Advances in Chemical Sciences,** 4(1) (January,**2016**) 14-19 , ISSN: 2320-0928

**(I.F:4.14)**

22. D. SyamalaBai,**R. Padma Suvarna**, C. BalaMurali Krishna,“*Characterization and DC*

*Conductivity Studies of NiO Nano Particles*” in**Indian Journal of Advances in Chemical**

**Sciences** in January 4(1) (January,**2016**) 98-101 , ISSN: 2320-0928**(I.F:4.14)**

1. B. NarasimhaRao, **R. Padma Suvarna,** “*Optical properties of PEO based polymer electrolyte with alkali metal iodides”*  in **International Journal of Applied Engineering Research**, ISSN 0973-4562 Vol. 10 No.91, (February, **2015**)**(I.F:0.51)**
2. K. Jhansi, **R. Padma Suvarna**, K. VenkateswaraRao, **“***CuO nanoparticles Synthesis and Characterization for Humidity Sensor Application”*  in **Journal of Nanotechnology and Materials Science**3(1): 1- 5. (April, **2016**)**(I.F:0.0)** [doi.org/10.15436/2377-1372.16.020](https://doi.org/10.15436/2377-1372.16.020)
3. K. Madhavi, R**R. Padma Suvarna**, G.Mohan Rao. “ *Effect of plasma ion itching on Si nano wires towards superhydrophobicity”* in **Elsevier Science Direct Materials today proceedings** 3 (2016) 1907–1913, 2214-7853. **(I.F:1.24)**
4. V. Sharon Samyukthaa, A.GuruSampath Kumar, T.SubbaRao, **R. Padma Suvarna,**“*Synthesis, structural and dielectric properties of Magnesium calcium titanate (1-x)MgTiO3- xCaTiO3 (x=0, 0.1, 0.2 and 0.3)”* in **Elsevier Science Direct Materials today proceedings** 3 (2016) 1768–1771, 2214-7853. **(I.F:1.24)**
5. V. Sharon Samyuktha, , T.SubbaRao, **R. Padma Suvarna,**“*Synthesis and Dielectric Properties of MgTiO3 Ceramic Material”* in **International Journal of Engineering Science and Technology**” ISSN: 2278-0181 , Vol. 5 Issue 05, (May,2016) **(I.F:4.31)**
6. J. Gurusiddappa, W. Madhuri, **R. Padma Suvarna**, K. PriyaDasan. “*Studies on the morphology and conductivity of PEO/LiClO4”* in **Elsevier Science Direct Materials today proceedings**, 3 (2016) 1451–1459, 2214-7853. **(I.F:1.24)**
7. MadhaviKaranam, Mohan Rao G., HabibuddinShaik, and **R. Padma Suvarna**. “*Study of the Properties of the Porous Silicon Synthesized by Ag Assisted Electrolysis Etching* “ in **International Letters of Chemistry, Physics and Astronomy**, ,ISSN: 2299-3843, Vol. 71, pp 1524-0(November 2016). **(I.F:0.0)** doi:10.18052/www.scipress.com/ILCPA.71.40
8. M.Vasudeva Reddy, NazeerHussain, **R. Padma Suvarna,**“*Classification of Aerosols on the Basis of Optical Measurements at A Semi-Arid Station, Anantapur, A.P*.” in the **Proceedings of Indian Aerosol Science and Technology Association**, ISSN: 09714510, conference held on (December, 6-8th, 2016) at Physical research laboratory, Ahmedabad. **(I.F:0.0)**
9. V. S. Samyuktha, T. Subbarao, **R. Padma Suvarna**, A. G. Kumar“**Synthesis, Characterization, Dielectric And Thermoelectric Properties Of Calcium Doped Magnesium Titanate Mg(1-X)Caxtio3 (X=0.1, 0.3 & 0.5) Ceramics**”,**Journal of Ovonic Research** Vol. 13, No. 1,(January,**2017**), p. 33 – 43.**(I.F: 0.197 )**
10. SyamalaBai D and **R. Padma Suvarna,**“*AC Electrical Conductivity Studies of Pani- Copper Oxide Nanocomposites*” **Indian Journal of Science and Technology**, Vol 10(4), (January **2017**),**(I.F:0.6 )**DOI: 10.17485/ijst/2017/v10i4/102833
11. V. Sharon Samyuktha, T. SubbaRao, **R. Padma Suvarna,**“*Structural and Dielectric Properties of Mg(1-x)CaxTiO3 (x=0.7, 0.8) Ceramic Materials”* in **Mechanics, Materials Science & Engineering**, (March,**2017**) ISSN 2412-5954 **(I.F: 0.0)**.
12. SyamalaBai D and **R. Padma Suvarna,**“*Synthesis and characterization of Zinc oxide nanoparticles by solution combustion method: DC conductivity studies***” Indian Journal of Advances in Chemical Sciences (**May,**2017**) **(I.F:4.14)** DOI:10.22607/IJACS.2017.503004
13. B.NarasimhaRao, **R. Padma suvarna**, K. Susmitha, “ *PEO Based Gel Polymer Electrolyte with Acetamide, KI/I2 Added Composite for Dye Sensitized Solar Cell Applications”* International **Journal of Scientific & Engineering Research**, Volume 8, Issue 6, (June,**2017**), ISSN 2229-5518.

**(I.F: 0.42)**

1. K. Jhansi, Jayarambabu, **R. Padma Suvarna**, Venkateswara Rao “*Biosynthesis of MgO nanoparticles using mushroom extract: effect on peanut (Arachishypogaea L.) seed germination*” \_ **Springer-Verlag** GmbH Germany 2017, July 2017, 3 Biotech ( July,**2017**) 7:263,

.**(I.F: 0.0 )** DOI 10.1007/s13205-017-0894-3

1. Kavitha, T.SubbaRao and **R. Padma Suvarna,**“*Structural and optical characteristics of Cu Doped SnO2 Nanostructures*”,**Journal of Nanoscience and Nanotechnology Applications**, (July,**2017**).

ISSN 7920-2577**(I.F: 0.49)**

1. Farooq and **R.Padma Suvarna,**“*Photoluminiscence Properties of DY+3 ions doped telluro phosphide Glasses*”. **Proceedings of the International Conference on Material Science and Technology**, Held on 28-29th August, 2017 at Pachamuthu College of Arts and Science, Dharmapuri, Tamilnadu. **(I.F: 0.0 )**
2. Prasad Ghanta,Muralidhar Reddy Kalimi, **R. Padma Suvarna***“Density and Speed of Sound of the Binary Mixture of 1Butyl-3-Methylimidazolium Bis(trifluoromethylsulfonyl) imide + 2Methoxyethanol from T = (298.15 to 323.15) K atmospheric Pressure”* **Journal of Chemical Engineering data**, ( October,**2017**), **(I.F: 2.19)** DOI: 10.1021/acs.jced.7b00604
3. N. Suresh Kumar, **R.Padma Suvarna**“*Impedance and Dielectric Modulus Analysis of PCT Nanoparticles*” **International Journal of Engg. Tech. & Research**, ISSN: 2394-3386, Vol.4, issue 11, (November **2017**). **(I.F:0.14)**
4. N. Suresh Kumar, **R. Padma Suvarna**, U. Naresh, M. Prakash, K. Chandra Babu Naidu and V. Ramesh Kumar, *Structural and Physical Properties of Pb0.8Co0.2TiO3+δ Nanoparticles*,**International Journal of Engineering Technology Science and Research**, 4, issue 12, 421-424.,(December,2017), **(I.F:2.12)**
5. [G. Prasad](https://www.sciencedirect.com/science/article/pii/S0167732217344793), [K. Muralidhar Reddy](https://www.sciencedirect.com/science/article/pii/S0167732217344793), **R.Padma Suvarna**, [T. Madhu Mohan](https://www.sciencedirect.com/science/article/pii/S0167732217344793),, [V. Ramesh Kuma](https://www.sciencedirect.com/science/article/pii/S0167732217344793)d, *Thermophysical properties of 1-butyl-3-methylimidazolium istrifluoromethylsulfonyl) imide with 2-ethoxyethanol from T = (298.15 to 323.15) K at atmospheric pressure*”, **Journal of Molecular Liquids**, 251, 335-344, (February,**2018**)**(I.F:4.85)** [doi.org/10.1016/j.molliq.2017.12.015](https://doi.org/10.1016/j.molliq.2017.12.015)
6. N. Suresh Kumar, **R. Padma Suvarna,** · K. Chandra Babu Naidu,*Structural and ferroelectric properties of microwave heated lead cobalt titanate nanoparticles synthesized by sol– gel technique***,Journal of Materials Science: Materials in Electronics,**29, [Issue 6](https://link.springer.com/journal/10854/29/6/page/1), 4738–4742,(March **2018**), **(I.F:2.19)**<https://doi.org/10.1007/s10854-017-8429-6>
7. T. Subrahmanyama,b, K. Rama Gopal c,\*\*, R. Padma Suvarna a, B. ChinnaJamalaiah d,\*, ChSrinivasaRao, *Optical properties of Sm3þ -doped TeO2–WO3–GeO2 glasses for solid state lasers,***Physica B: Condensed Matter**, 533, 76-82 (March,**2018**) **(I.F:1.9)**doi.org/10.1016/j.physb.2018.01.007
8. TallamSubrahmanyam, Kotalo Rama Gopal, **Reniguntla Padma Suvarna**, BungalaChinnaJamalaiah “*Intense green emission from Tb3+- doped Teo2-Wo3-Geo2 glasses”*,**AIP Conference Proceedings** 1952, 020108 (April, **2018**) **(I.F: 0.4)**
9. TallamSubrahmanyam, Kotalo Rama Gopal, **Reniguntla Padma Suvarna**, and BungalaChinnaJamalaiah, *Red luminescence from Eu3+-doped TeO2-WO3-GeO2 glasses for solid state lasers*, **AIP Conference Proceedings**1953, 090050 (May,**2018**); **(I.F: 0.4)** doi: 10.1063/1.5032897
10. T. Subrahmanyama, K. Rama Gopal, **R. Padma Suvarna**, B.C. Jamalaiah,, M.V. Vijaya Kumar, *Luminescent properties of Tb3+- doped TeO2-WO3-GeO2 glasses for green laser applications*, **Optical Materials** 80 (June,**2018)** 154–159, 21308**(I.F:2.02)** doi.org/10.1016/j.optmat.2018.04.052
11. N. Suresh Kumar, **R. Padma Suvarna**, K. Chandra Babu Naidu, G. R. Kumar, S. Ramesh,*Structural and functional properties of sol-gel synthesized and microwave heated Pb0.8Co0.2-zLazTiO3 (z = 0.05–0.2) nanoparticles*, **Ceramics International** 44 **(**July**,2018)** 19408-19420 **(I.F: 3.450)**

DOI: [10.1016/j.ceramint.2018.07.176](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1016%2Fj.ceramint.2018.07.176)

1. N. Suresh Kumar, **R. Padma Suvarna,** K. Chandra Babu Naidu, *Sol-GelSynthesized and Microwave Heated Pb0.8-yLayCo0.2TiO3 (y = 0.2–0.8) Nanoparticles: Structural, Morphological and Dielectric Properties*, **Ceramics International** 44 **(**October**, 2018)** 18189-18199 **(I.F: 3.450)**

[doi.org/10.1016/j.ceramint.2018.07.027](https://doi.org/10.1016/j.ceramint.2018.07.027)

1. Nagasamudram Suresh Kumar, **Reniguntla Padma Suvarna**, Kadiyala Chandra Babu Naidu *Multiferroic Nature of Microwave‐Processed and Sol‐Gel Synthesized NanoPb1‐xCoxTiO3 (x = 0.2–0.8) Ceramics*,**Crystal Research and technology**, (November,**2018**) **(I.F: 0.58)**

[**doi.org/10.1002/crat.201800139**](https://doi.org/10.1002/crat.201800139)

1. S Farooq, Y Munikrishna Reddy, **R.Padma Suvarna**, VenkataKrishnaiahKummara, CS DwarakaViswanath, SkMahamuda*Photoluminescence of dysprosium doped antimony-magnesium-strontium-oxyfluoroborate glasses*,[**Ceramics International**](https://www.sciencedirect.com/science/journal/02728842)[Volume 44, Issue 17](https://www.sciencedirect.com/science/journal/02728842/44/17), (December **2018**) Pages 21303-21308 **(I.F: 3.8)** [doi.org/10.1016/j.ceramint.2018.08.181](https://doi.org/10.1016/j.ceramint.2018.08.181)
2. N. Suresh Kumar, **R. Padma Suvarna**, K. Chandra Babu Naidu, *Phase Change and Ferroelectric Nature of Microwave Heated Lead Cobalt Titanate Nanoparticles Prepared by Sol-Gel Method*, **International Journal of Applied Ceramic Technology** 16 **(**February**,2019)** 130-137 **(I.F: 1.165)**

[**doi.org/10.1111/ijac.13056**](https://doi.org/10.1111/ijac.13056)

1. N. Suresh Kumar, **R. Padma Suvarna**, K. Chandra Babu Naidu, *Grain and grain boundary conduction mechanism in sol-gel synthesized and microwave heated Pb0.8-yLayCo0.2TiO3 (y = 0.2-0.8) nanofibers,***Materials Chemistry and Physics** 223 **(**Februaru**,2019)** 241-248 **(I.F: 2.781)**

[doi.org/10.1016/j.matchemphys.2018.11.004](https://doi.org/10.1016/j.matchemphys.2018.11.004)

1. N. Suresh Kumar, · **R. Padma Suvarna,** · K. Chandra BabuNaidu “*microwave heated lead Cobalt titanate nanoparticles synthesized by sol-gel technique: Structural, morphological, dielectric, impedance and ferroelectric properties*” **Materials Science and Engineering B**, Elsevier, 242 (2019) 23-30. (March,**2019**). 21308 **(I.F: 4.7)** [doi.org/10.1016/j.mseb.2019.03.005](https://doi.org/10.1016/j.mseb.2019.03.005)
2. BeerelliRajitha, KalagaddaVenkateswaraRao, **R. Padma Suvarna,***Synthesis of multiferroic BiFeO3 microcrystals for photocatalytic activity and stability performance*”**Materials today proceedings 26, (**July **2019) (I.F: 1.24)** <https://doi.org/10.1016/j.matpr.2019.06.325>
3. N. Suresh Kumar, **R. Padma Suvarna**, K. Chandra Babu Naidu, S. Ramesh, K. Srinivas, and D. Baba Basha, *Optical bandgap and ferroelectric studies of Pb0.8-yLayCo0.2TiO3 (y = 0.2 to 0.8) synthesized by microwave irradiation processed sol-gel technique*, **Advances in Natural Science: Nanoscience and Nanotechnology** 10 (September,**2019**) 035014 (6pp) (**I.F: 1.673**)
4. N. Suresh Kumar, **R. Padma Suvarna,** K. Chandra Babu Naidu,Prasun Banerjee, A. Ratnamala, H. Manjunatha, *A review on biological and biomimetic materials: Applications*, **Applied Physics A** (May,2020), (Springer-Nature, SCI, **I.F:1.784**), [doi.org/10.1007/s00339-020-03633-z](https://doi.org/10.1007/s00339-020-03633-z)
5. N. Suresh Kumar, **R. Padma Suvarna,** K. Chandra Babu Naidu, [Negative *dielectric behavior in tetragonal La0.8Co0.2-xEuxTiO3 (x = 0.01 - 0.04) nanorods*](https://www.sciencedirect.com/science/article/pii/S1044580320318969), [**Materials Characterization**](https://www.sciencedirect.com/science/journal/10445803)**,**[166](https://www.sciencedirect.com/science/journal/10445803/166/supp/C) (August,2020) 110425. (**I.F: 3.562**)[doi.org/10.1016/j.matchar.2020.110425](https://doi.org/10.1016/j.matchar.2020.110425)

59. P.Pavan Kumar, **R. Padma Suvarna, K.Muralidhar Reddy,** *Physical and Optical Properties*

*of Borobismuthate GlassesContaining Vanadium Oxide,* Glass Physics and chemistry,Vol.46, 2,

(December,2019) **DOI:** 10.1134/S1087659620020078

60. P.Pavan Kumar, **R. Padma Suvarna, K.Muralidhar Reddy,** *Optical and A.C conductivity*

*characterization of alkaline earth borobismuthate glasses doped with nickel oxide,* Elsevier

OPTIK,220,165152 (June,2020). **( I.F.2.187)** doi org/10.1016/j.ijleo.2020.165152

61. Pavan Kumar Pothuganti, Ashok Bhogi, Muralidhara Reddy Kalimi, R.**Padma Suvarna,**

*Influence of TiO2 ions on structural properties and AC conductivity of BaO- Bi2O3-B2O3 glass*

*system*, Materials Today: Proceedings, (March 2020). **(I.F: 1.24)**

62. Pavan Kumar Pothuganti, Ashok Bhogi, Muralidhara Reddy Kalimi, R.**Padma Suvarna**, *A study*

*on optical properties of MnO doped borobismuthate glasses*, Materials Today: Proceedings,

(7 November 2019). **(I.F: 1.24)**

63. Pavan Kumar Pothuganti, Ashok Bhogi, Muralidhara Reddy Kalimi, R.**Padma Suvarna**

, *Effect of small concentration of TiO2 on physical and optical properties of*

*borobismuthate glasses*, AIP Conf. Proc. 2220, 080038-1–080038-6; (May 2020). **(I.F.0.4)**

<https://doi.org/10.1063/5.0001144>

64. V. S. Samyukthaa,\*, A. G. Sampath Kumar , T. S.Rao, R. **Padma Suvarna,** *Investigation of*

*electrical and dielectricstudies of calcium doped magnesiumtitanate[Mg(1-x)CaXTiO3 (x=0,*

*0.9)] ceramics,* Digest Journal of Nanomaterials and Biostructures Vol. 16, No. 3, July

2021, p. 839 – 846, **(I.F.0.0)**

**65.** N Suresh Kumar, **R Padma Suvarna**, K Rama Krishna Reddy, T Anil Babu, S Ramesh,B

Venkata Shiva Reddy, H Manjunatha, K Chandra Babu Naidu, Tetragonal structureand

dielectric behaviour of rare-earth substituted La 0. 8 Co 0. 16-x Eu 0. 04 Gd x TiO 3 (x=

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**REVIEWER TO JOURNALS**

1. Journal of Materials science: Materials in Electronics(Springer-Nature)
2. International Journal of Applied Ceramic Technology (Wiley)

**MEMBERSHIP IN PROFESSIONAL BODIES**

* Life member in Indian Association of physics Teachers
* Life member in Indian Science Congress
* Life member in Materials Research Society of India
* Life member in Electron Microscope Society Of India
* Life member in Indian Physics Association

**ANY OTHER**:

* Fact Finding Committee member for granting University affiliation to various institutions.
* Expert Committee member for AICTE inspection for increase in intake/

introduction of new courses in various institutions.

* Subject Expert in various Staff Selection Committees
* Delivered guest lectures at various Affiliated Engineering Colleges
* Co-ordinator for IQAC during 2019-2022