**Dr. R. K. Shukla**

*Professor,Departof Physics, University of Lucknow, Lucknow-226007, INDIA*

1. Patents (TWO)

* first in the 85 years history of Physics Department. Lucknow University

2. Devices developed

* Petrol Adulteration Measurement System
* Real-Time, highly sensitive (10-5 RIU) wide range Refractometer ***First of its kind in the world***

*Triggered research work in USA*

* Real-Time volume sensor
* Humidity sensor using solid state thin films
* Organic vapour/toxic gas sensor using solid state thin films

*All may* *be used on-line in industries.*

3. Developed Petrol Adulteration Measurement System

* Fool-Proof
* Portable
* Can be used in cars/petrol pumps/individuals
* Economic

• Demonstrated successfully at

Indian Oil Corporation, R & D wing Faridabad on invitation

&

Secretary, DST, New Delhi

• Appreciation from

IOC; DST and CONCERT Chennai

* Replicated by a company in Kolkata and submitted to DST.

4 a) Major Research Projects running - TWO

* DST , New Delhi

1. Earlier **FOUR** research projects completed successfully

5. Work on Nanotechnology

* Publications in reputed international journals (all refereed)
* Guided Ph.D. theses
* Grown nanosized particles
* Developed TCO film for electrode application in transparent photonics

6. Research Publications **(46)** in refereed journals of international repute, namely

* Applied Physics Letters, USA
* J. Applied Physics, USA
* Crystal Res. Technol. Wiley, Germany
* J. of Crystal Growth, Elsevier
* Jap. J. Applied Physics
* Applied Surface Science, Elsevier
* J. of Mater. Sc.: Mater. In Electronics, USA
* Measurement Sc. And Technol., IOP, USA
* Optical Engineering, SPIE, USA,
* Physical Review A,
* Physical Review E,
* Sensors and Actuators, Elsevier,
* Nuclear Instrum. & Methods in Phys. Res., Netherlands,
* J. Physical Society, Japan,
* J. of Optics, India,
* J. of Pure and Applied Physics.

7. Papers presented at Conferences (16+41 =**57**)

• International- **16**

• National - 41

8. New Labs established in Dept. of Physics Lucknow University

* Thin Film Lab
* Thick Film Lab
* New experiments in Laser and Opto-electronics Lab
* Holography (in process)

9. Upgraded our research lab by procuring major research projects from DST, UGC, FIST, SAP, CST, State Govt. (Our lab is having maximum no. of instruments in the whole department at L.U.) Thermal evaporation, Spray pyrolysis set-up, Keithley electrometer, UV-Vis-NIR, FTIR, PL, Lock-in amplifier, Acousto-optic set-up, Vibration isolation Table, Furnace, LCR meter etc.

* Optochem, India,
* Systronics India,
* Scientific Instruments, Roorkee
* DUCOM India,
* OSAW India,
* Benchmark India,
* Technoways India

1. Hands-on experience during research work in our lab on equipments from

* JASCO
* Bruker
* Perkin Elmer
* Newport, USA,
* Aerotech, USA,
* Bentham, England,
* Photon Control, England,
* Citizen, Japan,
* Hind HIVAC, India,
* Mittal Enterprises India,
* IBP

11. Teaching and Research experience - 23 yrs including 2 yrs of part-time lecturership

12. Ph.D. guided: ***Four***awarded

Also, I have co-guided the research work of six other students and have joint research publications with them.

1. Supervised projects of M.Sc. students

14. Books: Authored ***FOUR* Books** (New Age International Publishers *formerly Wiley Eastern Ltd.)*

* Mechanics: ISBN 81-224-1875-9
* Practical Physics: ISBN 81-224-748516.
* Introduction to Optics: ISBN: 978-81-8489-381-6
* Practical Physics (Electricity, Magnetism and Electronics) ISBN: 978-81-224-3229-9

15. **Convener** of 2 National Conferences : 4th National Conference on Nanomaterials and Nanotechnology to be held at Department of Physics, Lucknow University

16**. Organizing Secretary** in 2nd and 3rd National Conference on Nanomaterials and Nanotechnology held at Lucknow University (2009) and Amity University, Lucknow (2010) and NSPTS-16 (2011)

17. Edited Proceedings of 3 National Conferences

18. Reviewed papers for International journals viz. Optical Engineering, SPIE, USA and Elsevier

19.Royalty donated to

* Prime Minister Relief fund
* Sponsoring a poor child's education

1. Judge at

* Macfair - International Competition CMS, Lucknow

1. Of immediate use for society

* Petrol Adulteration Measurement System
* Refractometer - on- line, real-time, highly sensitive, wide range
* Humidity, toxic gas/vapour and volume sensor
* Books
* Royalty donation

22. Incharge B.Sc. laboratory and M.Sc. Thin and thick film laboratory

23.Our work triggered research work in USA on refractometers

24. **Corporate Assignments**

* Provost of Balrampur Management hostel, Lucknow University
* Superintendent – Results UG Arts Examination, Lucknow University.
* Associate NCC Officer
* Ex-Assistant Proctor
* Ex-Programme Coordinator-NSS

25.Co-authored 5 award winning papers at National Conferences.

26. Further work/planning

* One major research project in pipeline
* Preparing proposal for Centre of Excellence in Solid State thin films and Nanotechnology
* One year MSc (Tech) programme on Lasers and Photonics

27. Life Membership

* Material Research Society of India
* The Indian Physical Society
* The Indian Science Congress Association
* The Optical Society of India
* The Indian Laser Association
* Laser and Spectroscopy Society of India (LASSI)

**Annexure `1`**

**Books Published**

**Internationals publishers:**

|  |  |
| --- | --- |
| **S.No.** | **Title** |
|  | **Mechanics**  **R.K. Shukla** and Anchal Srivastava  Published by: New Age International (P) Limited Publishers (Formerly Wiley Eastern Limited)  ISBN: **978-81-2241-875-0** |
|  | **Practical Physics**  **R.K. Shukla** and Anchal Srivastava  Published by: New Age International (P) Limited Publishers (Formerly Wiley Eastern Limited)  **ISBN-10:** **9386286041**  **ISBN-13: 978-9386286048** |
|  | **Introduction to Optics**  Anchal Srivastava, **R.K. Shukla** and T.P. Pandya  Published by: New Age International (P) Limited Publishers (Formerly Wiley Eastern Limited)  **ISBN-10:** **8122430813**  **ISBN-13:** **978-81-224-3081-3** |
|  | **Practical Physics (Electricity, Magnetism and Electronics)**  Anchal Srivastavaand **R.K. Shukla**  Published by: New Age International (P) Limited Publishers (Formerly Wiley Eastern Limited)  **ISBN-10: 9386286823**  **ISBN-13: 978-9386286826** |
|  | **Quantum Mechanics, Atomic and Molecular Spectra**  **R.K. Shukla** and Anchal Srivastava  Published by: New Age International (P) Limited Publishers (Formerly Wiley Eastern Limited)  ISBN: 978-93-87788-56-5 |
|  | **Optical and Electrical Properties of Metal Doped Chalcogenides Glasses**  **Rajesh Shukla**  Published by: LAP LAMBERT Academic Publishing **ISBN: 978-613-9-45982-7** |
|  | **Introduction to Optical Fibers and its Applications**  **R. K. Shukla**  Published by: LAP LAMBERT Academic Publishing  ISBN: **978-613-9-47396-0** |

**National’s publishers:**

|  |  |
| --- | --- |
| **S.No.** | **Title** |
|  | **Introduction to Photoconductivity**  **R.K. Shukla**, K.C. Dubey ad S.K. Mishra  Published by Walnut Publication, Bhubaneswar, India  ISBN: 978-93-8839-724-7 |
|  | **Conducting Polymer – Metal Nanocomposites and its Applications**  **R.K. Shukla**, K.C. Dubey and S.K. Singh  Published by AkiNik Publication, New Delhi, India  ISBN: 978-93-5335-053-6 |

**List of Patents Under Dr. R.K. Shukla**

|  |  |
| --- | --- |
| S.No. | Title |
|  | "A REFRACTOMETER SENSOR"  Patent No. 232779  Patent Application No.: 968/DEL/1999  Date of Filing : 13/07/1999  Date of Grant:21/03/2009  Patent granted through National Research Development Corporation (A Govt. of India Enterprise), Anusandhan Vikas 20-22, Zamrudpur, Community Center, Kailash colony Ext., New Delhi-110048. |
|  | "AN OPTO-ELECTRONIC REFRACTOMETER FOR MEASURING THE REFRACTIVE INDEX OF LIQUIDS"  Patent No. 242376  Patent Application No.: 1100/DEL/2002  Date of Filing: 01/11/2002  Date of Grant: 24.08.2010  Patent granted through National Research Development Corporation (A Govt. of India Enterprise), Anusandhan Vikas 20-22, Zamrudpur, Community Center, Kailash colony Ext., New Delhi-110048 |

**List of Awards/Fellowship**

**International**

|  |  |  |
| --- | --- | --- |
| S.No. | Year | Name of Award |
| 1 | 2019 | **Best Presentation Award** for presenting a poster title “Spectroscopy Study of Large Scale Synthesized Nitrogen Doped Carbon Nanotubes” in the 1st International Conference on “Bio-Psychosocial Perspectives of Trauma” jointly organized by Shia P.G. College (Associate College of University of Lucknow) and Indian Mental Health & Research Centre held on 13th January, 2019 |

**National**

|  |  |  |
| --- | --- | --- |
| S.No. | Year | Name of Award |
|  | 2019 | **ISCAS Bronze Medal**  For contribution to Material Science by Indian Association of Solid State Chemists and Allied Scientists, Jammu o Dec. 20, 2019 |
|  | 2019 | **Certificate of Appreciation**  Performedexceedingly well during academic sessionof 2019**-**20 by 63 UP Battalion NCC Lucknow |
|  | 2019 | **Excellence Award for Outstanding Research**  Givenby Maharishi University of Information & Technology, Lucknow at the Workshop on Introduction to Artificial Intelligence: Neural Networks held at Oct. 16, 2019 |
|  | 2019 | **Appreciation Award** for Untiring efforts, dedication, commitment and contributions during the Combined Annual Training Camp-212 held at Lucknow from May 22nd - 31st, 2019 |
|  | 2019 | **Bronze Medal for the significant contributions in the field of education and science** in the National Conference on Recent Trends and Advancements in Chemical Sciences at University of Delhi, India given by Society for Promotion of Education and Science, held from March 29-31, 2019 |
|  | 2018 | **Award of Excellence for the contribution to research in Polymer Sciences and Allied Areas**  Given by Department of Plastics Engineering CIPET: Institute of Plastic Technology (IPT), Lucknow on 25-30 June,2018. |
|  | 2018 | **Best Poster Presentation Award** for the paper entitled “Physical and Chemical Thin Film Deposition Techniques” in the National Seminar on Science Communication: Issues and Challenges Organized by Department of Physics, Fakhruddin Ali Ahmad Govt. P.G. College, Mahmoodabad, Sitapur, Feb. 16-17, 2018. |
|  | 2017 | **Best Poster Presentation Award** at 6nd National Conference on Nanomaterials and Nanotechnology, organized by Department of Physics, University of Lucknow on Feb. 11-13, 2017. |
|  | 2011 | **1st Prize through R. Chandrashekhar Memorial foundation for the Best Industry Oriented Research Work** presented at NSPTS-11, NSPTS-12, NSPTS-13, NSPTS-15 and Continued Work Presented at NSPTS-16 entitled “Synthesis, Characterization and Humidity Sensing Properties of Polyaniline-Zinc Oxide Nanocomposites” at 16th National Seminar on Physics and Technology of Sensors held at Department of Physics, University of Lucknow on 11-13 Feb. 2011. |
|  | 2010 | **Best Poster award** for the paper entitled “Enhancement in the Visile Photoluminescence from Fe doped ZnO Films” at 3rd National Conference on Nanomaterials & Nanotechnology organized by Amity School of Engineering & Technology and Department of Physics, University of Lucknow on 21st – 23rd Decemer, 2010 |
|  | 2009 | **National Environmental Science Gold medal for Outstanding Research & Academic Contribution in the field of Environmental Sciences**, Awarded by Zoological Society of India felicitate during 20th All India Congress of Zoology held from 29th – 31th December-2009 at Central Institute of Fisheries Education, Mumbai. |
|  | 2009 | **Best Poster award** at 2nd National Conference on Nanomaterials and Nanotechnology, organized by Department of Physics, University of Lucknow on December 21-23, 2009. |
|  | 2009 | **Dr. N.G. Patel Prize for the Best Oral presentation award** for the paper entitled “Pt Sensitized Nanocrystalline ZnO thin/Thick Film LPG Sensor” at 14th National Seminar on Physics & Technology of Sensors - 2009 |
|  | 1996 | **Reward for performance of his duties boldly and fearlessly during Lucknow University Examination** on 13.07.1996 given by Vice-Chancellor, University of Lucknow on the recommendation by Lucknow University Teacher’s Association. |

**List of Research Projects completed by Dr. R.K. Shukla**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of Agency | | | Title of project | Total Amount | Period of sup port | Completed ongoing |
| Department of Science & Technology, New Delhi, India | | | Design, fabrication and standardization of a high precision fiber optical sensor for instant determination of adulteration in petrol | Rs.5,63,500=00  DST/JTP/GL 5(7)/97  Dated 19/3/2002) | April 1,2002 to Oct.2002 | Completed |
| Department of Science & Technology, New Delhi, India | Engineered prototype of compact user friendly petrol adulteration measuring system | | Rs.19,71,000=00  DST/JTP/GL 3(6)/03  Dated 05/3/2004) | Three Years  2003-2006 | Completed |
| Department of Science & Technology, New Delhi, India | Synthesis and Chacterization of Conducting Organic polymer films for application as ammonia gas sensor | | Rs.10,63,000=00  SR/S2/CMP-04/2009  Dated 10.12.2009 | Three Years  2010-2013 | Completed |
| University Grants Commission  New Delhi | Study of morphology, electrical, optical and gas sensing properties of pure and doped metal oxide films | | Rs.3,45,500=00  F-10-14/2004 (SR)  Dated 5.01.2004 | Three Years  2004-2007 | Completed |
| University Grants Commission  New Delhi | Fabrication of Nanocrystalline Semiconducting oxide pellets and films and study of their sensitivity to humidity and their application in humidity sensor | | Rs.8,49,500=00  F-33-25/2007 (SR)  Dated 28.02.2008 | Three Years  2008-2011 | Completed |

**LIST OF PROCEEDINGS EDITED**

1. Proceedings of 2nd National Conference on Nanomaterials and Nanotechnology held at Department of Physics, Lucknow University, Lucknow Dec.21-23, 2009

Editors: N.K. Pandey, **R.K. Shukla** and Anchal Srivastava

Published by Excel India Publishers, New Delhi

ISBN: 978-93-80043-61-6

1. Proceedings of 3rd National Conference on Nanomaterials and Nanotechnology held at Amity University, Dec.21-23, 2010 (Jointly organized by Amity University and Department of Physics, Lucknow University, Lucknow)

Editors: **R.K. Shukla**, Dharmendra Mishra, Anchal Srivastava and N.K. Pandey

Published by Mindshare International Refereed Journal

ISSN: 2229-4872

1. Proceedings of 16th National Seminar on Physics & Technology of Sensors (NSPTS-16) held at Department of Physics, Lucknow University, Lucknow, Feb. 11-13, 2011

Editors: **R.K. Shukla,** Anchal Srivastava, A.M. Saxena and Rahul Gupta

Published by Lucknow Journal of Science, Vol.8, No.1, 2011

Print ISSN: 0974-8121

Online ISSN: 0974-813X

1. Proceedings of 5th National Conference on Nanotechnology and Materials Science, Dec.21-23, 2013, Organized by Department of Physics, Lucknow University, Lucknow

Editors: Prof. N. K. Pandey, Dr. Anchal Srivastava and **Prof**. **R. K. Shukla**

1. Proceedings of International Conference on Advances in Light Technologies and Spectroscopy of Materials (ICALTSM-216), Jan.16-18, 2016, Organized by Department of Physics, Lucknow University, Lucknow

Editors: Prof. **R. K. Shukla**, Mr. Nishat Kumar

1. Proceedings of 6th National Conference on Nanotechnology and Materials Science, Dec.21-23, 2016, Organized by Department of Physics, Lucknow University, Lucknow

Editors: Prof. N. K. Pandey, Dr. Anchal Srivastava and Prof. **R. K. Shukla**

1. 6th National Conference on Nanomaterials and Nanotechnology, 11 to 13 February 2017

Editors: Prof. N.B. Singh and **Prof. R.K. Shukla**

Volume 5, Issue 3, Part 1, Pages 9033-9210 (2018)

ISSN: 2214-7853

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**WORKSHOPS/CONFERENCES ORGANIZED**

|  |  |  |
| --- | --- | --- |
| 1 | 2017 | **Workshop** on “Introduction to MATLAB and LABVIEW/ADVANCED COMMUNICATION SYSTEMS: PRINCIPLE & APPLICATIONS,  Organized by Department of Physics, University of Lucknow, Lucknow, U.P, India, **February 11, 2017.** |
| 2 | 2016 | International Conference on Advances in Light Technologies and Spectroscopy of Materials (ICALTSM-216), Jan.16-18, 2016  Organized by Department of Physics, Lucknow University, Lucknow |
| 3 | 2016 | 6th National Conference on Nanotechnology and Materials Science, Dec.21-23, 2016,  Organized by Department of Physics, Lucknow University, Lucknow |
| 4 | 2013 | 5th National Conference on Nanotechnology and Materials Science, Dec.21-23, 2013  Organized by Department of Physics, Lucknow University, Lucknow |
| 5 | 2012 | 4th National Conference on Nanotechnology and Materials Science, Dec.21-23, 2012  Organized by Department of Physics, Lucknow University, Lucknow |
| 6 | 2011 | 16th National Seminar on Physics & Technology of Sensors (NSPTS-16) Feb. 11-13, 2011  Organized by Department of Physics, Lucknow University, Lucknow, |
| 7 | 2010 | 3rd National Conference on Nanomaterials and Nanotechnology held at Amity University, Dec.21-23, 2010 Jointly organized by Amity University and Department of Physics, Lucknow University, Lucknow |
| 8 | 2009 | 2nd National Conference on Nanomaterials and Nanotechnology, Dec.21-23, 2009  Organized by Department of Physics, Lucknow University, Lucknow |

**List of Research Guidance By Dr. R.K. Shukla**

**(Ph. D. Awarded)**

1. Investigation of Humidity sensing properties of Aluminate and Ferrate thick films and magnesium oxide thin Films

**Puneet Misra (2002)**

1. Growth and Characterisation of Nanostructured metal oxide films by PLD

**Krishna Chandra Dubey (2006)**

1. Design and Fabrication of L.P.G. Sensor

**Dharmendra Mishra (2008)**

1. Gas Sensing using Metal Oxide Film

**Mamta Pandey (2010)**

1. Humidity and Gas Sensing Properties of Polymer and Semi-Conducting Metal-Oxide

**Akhilesh Tripathi (2013)**

1. Synthesis and Characterization of Pure and Doped Conducting and Semiconducting Materials

**Indra Bahadur (2015)**

1. Synthesis and Characterization of Conducting Polymers and its Metal Composites and their suitability as Gas Sensor

**Susheel Kumar Singh (2015)**

1. Optical and Electrical Properties of Metal Doped Chalcogenides

**Arvind Kumar Verma (2018)**

**BOOK CHAPTERS**

**International**

|  |  |  |  |
| --- | --- | --- | --- |
| S.N | YEAR | TITLE | ISBN |
|  | 2019 | **Dielectric Properties of PAni/ZnO Composite**  Divyanshi Srivastava and R. K. Shukla  Advances in Spectroscopy: Molecular to Materials  **Springer Proceedinngs in Physics 236**  [**http://doi.org/10.1007/978-981-15-0202-6\_24**](http://doi.org/10.1007/978-981-15-0202-6_24)  **Corresponding Author** | **http://doi.org/10.1007/978-981-15-0202-6\_24** |
|  | 2019 | **Review on Environments play role in Human Life**  **R. K. Shukla**  **Aangan, Refereed Proceeding of Physical Education & Sports Sciences**  **Corresponding Author** | **978-93-82462-47-7** |
| y  I | 2019 | **Dielectric properties of electrochemically synthesized PAni**  **R.K. Shukla** and Divyanshi Srivastava  Proceedings of International Symposium on Advances in Functional and Biological Materials (ISAFBM-2019),Page 24  Issue Date: 29-03-2019  **Corresponding Author** | **978-93-5351-824-0** |
| y  I | 2019 | **Optical Studies of metal doped Te-rich and Se-rich chalcogenide thin film**  **R.K. Shukla** and Arvind Kumar Verma  Proceedings of International Symposium on Advances in Functional and Biological Materials (ISAFBM-2019),Page 19  Issue Date: 29-03-2019  **Corresponding Author** | **978-93-5351-824-0** |
| y  I | 2018 | **Optical Fiber Sensors for Medical Applications**  **R. K. Shukla**  Traumashastra (Biopsychosocial Perspectives of Trauma) published by Indian Mental Health & Research Centre, Lucknow, page **378**  Issue Date: 14-11-2018  **Corresponding Author** | **978-93-5346-155-3** |
| y  I | 2018 | **Synthesis and Characterization of Conducting Polymer and their Application**  **R.K. Shukla**  Traumashastra (Biopsychosocial Perspectives of Trauma) published by Indian Mental Health & Research Centre, Lucknow, page **385**  Issue Date: 14-11-2018  **Corresponding Author** | **978-93-5346-155-3** |
| y  I | 2012 | **Study of Optical Properties of SnO2 Thin Films Prepared by Spin Coating and Spray Pyrolysis Method**  **R.K. Shukla** and Akhilesh Tripathi  International Conference On Computational Electronics And Nanotechnology: Page No.383-385,Vayu Education Of India, New Delhi-110002  **Corresponding Author** | **978-93-81348-65-9** |
| Y  I | 2001 | **Sol-Gel’ Derived Thin Film of Magnesium Oxide and its use in Humidity Sensor**  S.K. Shukla, G.K. Parashar, Puneet Misra, Bal Chandra Yadav , **R.K. Shukla,** L.M. Bali and G.C. Dubey  XIth International workshop on the Physics of Semiconductor Devices, I.I.T. Delhi, India Dec. 11-15 (2001).  Allied Publishers Limited, Vol. 2, Page 1203 | **81-7764-224-3** |
| Y  I | 2001 | **TiO2 Films Prepared by Sol-Gel and Vacuum Evaporation and their use  in  Humidity  Sensor  using Optical Fiber**  L.M. Bali, B.C. Yadav, **R.K. Shukla**, Anchal Srivastava, U.D. Misra and G.C. Dubey  XIth International workshop on the Physics of Semiconductor Devices, I.I.T. Delhi, India Dec. 11-15 (2001).  Allied Publishers Limited, Vol. 2, Page 1045 | **81-7764-224-3** |
| I | 1996 | **Optical Sensor For Determining Adulteration In Petrol By Kerosene**  Atul Srivastava, **R.K. Shukla**, Anchal Srivastava and L.M. Bali Proceedings of the International Conference on Fibre Optics and Photonics "PHOTONICS-96", Dec.9-13 (1996), I.I.T., Madras (Chennai), p.989.  Tats McGraw-Hill Publishing Company Limited, New Delhi. | **0-07-463355-4** |

**National**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Y | 2019 | **Introduction and Synthesis of Conducting Polymers**  **R.K. Shukla**, S.K. Singh and K. C. Dubey  Research Trends in Chemical Sciences, Vol.2: Page. No.17-27  AkiNik Publications, Delhi  Issue Date: 12-03-2019  **Corresponding Author** | **978-93-533532-54** |
| 1. Y | 2015 | **Electrochemical Synthesis of Conducting Polymers**  **R.K. Shukla**, Divyanshi Srivastava  Proceedings of National Conference on Recent Advances in Chemical and Materials Science (NCRACMS-15), 23-24 Feb., 2015, Page 5-7.  **Corresponding Author** | **978-93-84224-25-7** |
| 1. Y | 2015 | **Optical Studies of Commercial and Prepared Cadmium Sulfide Powder by a Co-Precipitation Method at Room Temperature**  Arvind Kumar Verma, Susheel Singh, Nishant Kumar, Anchal Srivastava, **R.K. Shukla**  Proceedings of National Conference on Recent Advances in Chemical and Materials Science (NCRACMS-15), 23-24 Feb., 2015, Page 8-11.  **Corresponding Author** | **978-93-84224-25-7** |
| 1. Y | 2015 | **Synthesis and Characterization of Conducting Polyaniline**  Susheel Kumar Singh, K.C. Dubey and **R.K. Shukla**  Proceedings of National Conference on Recent Advances in Chemical and Materials Science (NCRACMS-15), 23-24 Feb., 2015, Page 12-15  **Corresponding Author** | **978-93-84224-25-7** |
| 1. Y | 2010 | [**FTIR and Humidity Sensing Studies of Polyaniline/AI203 Composites**](javascript:void(0))  **RK Shukla**, Mamta Pandey, Anchal Srivastava and Kamakhya Prakash Misra  **Emerging Trends in Laser & Spectroscopy and Applications**, 308-311, 2010  Allied Publishers Pvt. Ltd., New Delhi  **Corresponding Author** | **9788184246261** |
| 1. Y | 2009 | **Humidity Sensing Properties of Amorphous Zinc Oxide Films**  **R.K.Shukla**, Anchal Srivastava, Atul Srivastava, Farha Deba, Dharmendra Mishra and Shobhna Dixit  Proceedings of 2nd National Conference on Nanomaterials and Nanotechnology, Department of Physics, University of  Lucknow, Lucknow 21-23 December, 2009. Page.1-4.  Excel India Publishers, New Delhi  **Corresponding Author** | **978-93-80043-61-6** |
| 1. Y | 2009 | **Humidity Sensing Response of Polyaniline/Alumina Composites**  Mamta Pandey, Anurag Prasad, K. C. Dubey and **R.K.Shukla**  Proceedings of 2nd National Conference on Nanomaterials and Nanotechnology, Department of Physics, University of  Lucknow, Lucknow 21-23 December, 2009. Page.106-107.  Excel India Publishers, New Delhi  **Corresponding Author** | **978-93-80043-61-6** |
| 1. y | 2009 | **Nanotechnology – the Recent Uses**  **R.K.Shukla,** Atul Srivastava and Mahendra Kumar  Proceedings of 2nd National Conference on Nanomaterials and Nanotechnology, Department of Physics, University of Lucknow, Lucknow 21-23 December, 2009. Page.350-352.  Excel India Publishers, New Delhi | **978-93-80043-61-6** |

**Paper Presention in Seminars/Conferences**

**International Level:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Year | Topic | | |
|  | | 2019 | | **Laser Used in Medical Diagnosis & Therapy**  1st International Conference on “Bio-Psychosocial Perspective of Trama “ organized by Shia PG College & Indian Mental Health & Research Centre held on 13th Jan. 2019 |
|  | 2019 | **Spectroscopic Study of Large Scale Synthesized, Nitrogen doped Carbon Nanotubes Using Spray Pyrolysis technique**  Nitin Dwivedi, K.C. Dubey and **Rajesh Kumar Shukla**  Section IX: Materials Science  106th Indian Science Congress, 3-7 Jan. 2019, Lovely Professional University, Jalandhar, Page 89.  **Corresponding Author** | | |
|  | 2019 | **Optical Studies of Cd doped Film by Se 90-x Te10 Cdx**  **Shukla RK**, Dubey K.C. and Arvind Kumar Verma  Section IX: Materials Science  106th Indian Science Congress, 3-7 Jan. 2019, Lovely Professional University, Jalandhar, Page 105.  **Corresponding Author** | | |
|  | 2018 | **Ammonia Gas Sensing by ZnO thin films deposited by Sol-Gel Method**  International Seminar on Recent trends and experimental Approaches in Science, Technology, Nature and Management Organised by Society for Science and Nature in association with FDDI , Jodhpur and Oura Prakashan, Lucknow on Dec. 23-24, 2018 | | |
|  | 2018 | **Effect of Sol Concentration ------------- ZnO thin film**  **R.K. Shukla**  105th Indian Science Congress held at Manipur University, Imphal, March 16-20, 2018 | | |
|  | 2018 | **Preparation and Characterization of Pure and Metal Oxides Doped PAni Composite for Promising Humidity Sensing Analysis at Different Frequencies**  **R.K. Shukla**  International Conference on Multifunctional Advanced Materials, Organized by Kamla Nehru Mahavidyalaya and Dharampeth M.P. Deo Memorial Science College, Nagpur on Oct. 5-7, 2018, Page 9. | | |
|  | 2018 | **Enhanced NBE Emission in Nanocrystalline Eu doped ZnO Thin Film**  Nishant Kumar, Anu Katiyar, **R.K. Shukla** and Anchal Srivastava  International Conference on Multifunctional Advanced Materials, Organized by Kamla Nehru Mahavidyalaya and Dharampeth M.P. Deo Memorial Science College, Nagpur on Oct. 5-7, 2018, Page15. | | |
|  | 2017 | **Photoluminescence --------- Zn 1-x SrxO Films**  **R. K. Shukla**  Materials Science Section of the 104rd Indian Science Congress held in S.V. University, Tirupati, Jan. 3-7, 2017. | | |
|  | 2016 | **Acoustics in Old buildings**  International Seminar on Awadth Litrary Festival organized by Dept. of Urdu, University of Lucknow in collaboration with NCPUL, New Delhi & UP Urdu Academy, Lucknow on Sept. 26-27, 2016 | | |
|  | 2016 | **Structural and Thermal Properties of Electrochemically Synthesized Polyaniline**  Divyanshji Srivastava, **R. K. Shukla** and K.C. Dubey  Section IX: Materials Science  103rd Indian Science Congress held in University of Mysore, during Jan. 3-7, 2016.  **Page.99** | | |
|  | 2016 | **Thermal Properties of CuO doped Polyaniline**  **R. K. Shukla**  International Conference on Advances in Light Technologies and Spectroscopy of Materials (ICALTSM -2016) organized y Department of Physics, University of Lucknow and Laser and Spectroscopy Society of India on January 16-18, 2016 | | |
|  | 2016 | **Dielectric Properties of Electrochemically Synthesized Polyaniline/ZnO Nanocomposite**  Divyanshi Srivastava and **R.K. Shukla**  6th International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS-2016) Organized by University of Lucknow, Lucknow, U.P, India, during 5-8, Nov 2016, Page 161  **Corresponding Author** | | |
|  | 2015 | **Photoluminescence studies in Pb3O4/ZnO composites prepared by heat treatment technique**  Sheo K. Mishra and **R. K. Shukla**  International Conference on Multifunctional Materials for Future Applications (ICMFA-2015) at Department of Chemistry, IIT (BHU), Varanasi during October 27-29, 2015. | | |
|  | 2015 | **Structural and Optical Study of Polypyrrole doped TiO2**  **R.K. Shukla,** Susheel Kumar Singh and Mahendra Kumar  Section XIII: Physical Sciences  102th Indian science Congress, Organized by University of Mumbai, Maharashtra, India, during 3-7, Jan 2015.  **Page 89**  **Corresponding Author** | | |
|  | 2015 | **Comparative Optical and Thermal properties of Te90Se10 and Se90Te10 Chalcogenide**  Arvind Kumar Verma, Nishant Kumar, Susheel Singh, Anchal Srivastava and **R.K Shukla**  International Conference on “Multifunctional materials for Future Applications-ICMFA-2015” organized by Department of Chemistry, IIT(BHU) Varanasi during Oct. 27-29,2015. | | |
|  | 2014 | **Synthesis, Characterization and Dielectric behaviour of Polyaniline doped with CuO**  Susheel Kumar Singh, Arvind Kumar Verma, Mahendra Kumar and **R.K. Shukla**  International Symposium on Advances in Biological and Material Sciences (ISABMS-2014) organized by Humboldt Academy Lucknow & University of Lucknow, Lucknow, U.P, India, 15th July 2014.  **Corresponding Author** | | |
|  | 2013 | **Band Gap Engineering in Nanocrystalline Mg doped ZnO Films**  Nishant Kumar, Anchal Srivastava and R.K. Shukla  International Seminar on Advances in Bio-& Nano- Materials- **ISABNM-2013**, Organized by Department of Physics, University of Lucknow, Lucknow, U.P, India, 17th Nov, 2013. | | |
|  | 2009 | **Conducting Polymers ----------The Environment**  **R. K. Shukla**  20th All India Congress of Zoology: National Seminar on Bioresources and its Management for Food, Livelihood and Environmental Security & National Helminthological Congress Held at Central Institute of Fisheries Education, Mumbai, 29-31 Dec. 2009. | | |
|  | 2002 | **Prism Based Highly Sensitive Optical Humidity Sensor**  L.M. Bali, B.C. Yadav, **R.K. Shukla** and Anchal Srivastava  89th Session of Indian Science Congress, Lucknow University, Lucknow, India Jan.3-­7 (2002). | | |
|  | 1996 | [**Strength of Dielectric constant of MgO doped Polyaniline**](http://ajrconline.org/AbstractView.aspx?PID=2018-11-1-13)  **RK Shukla**  International Conference on Fibre Optics and Photonics- PHOTONICS 96, December 9-13, 1996 at Madras | | |

**National Level:**

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| S.No. | Year | Topic /Name/Place |
|  | 2019 | **Sensitivity of Zinc Oxide Thick Films to CO**  **R.K. Shukla**  TEQIP-III Sponsored National Conference on Smart Materials, Devices and Sustainable Technologies (SMDST-2019) organized by M.M.M. University of Technology, Gorakhpur on March 15-16, 2019 |
|  | 2019 | **Gandhis Directions for Development of Science in Modern India**  **R.K. Shukla** and K. C. Duey  National Seminar on Mahatma Gandhi Kal Aur Aaj, organized by Department of History & Asian Culture, Shia P.G. College, Lucknow, Feb.21-22, 2019, pp.19 |
|  | 2019 | **Optical and Photoconductivity properties of Multi Walled Carbon Nanotubes**  Nitin Dwivedi, K.C. Dubey and **R.K. Shukla**  National Seminar on Recent Advances in Material Science and Electronics, Organized by Dr. Rammanohar Lohia Avadth University, Ayodhya, 27-28 Feb. 2019, pp.55 |
|  | 2018 | **Structural and Optical Properties of Cd-doped Se-rich chalcogenide alloys**  Arvind Kumar Verma, Susheel Kumar Singh, K. C. Dubeyand **R.K Shukla**  National Seminar on Polymeric Smart & Nanomterials Technology Concept & Future Applications, Organized by Department of Plastics Engineering CIPET: Institute of Plastic Technology (IPT), Lucknow held on October 4th 2018. |
|  | 2018 | **Fiber Optical Used as a Humidity Sensor**  **R K Shukla**  ISCAS National Symposium on New Trends of Research in Solid State Chemistry and Allied Areas organized by ISCAS Institute of Solis State & Materials Science, Jammu University Campus, Jammu during March 4-6, 2018 |
|  | 2018 | **DFT Studies of 7-Hydroxy-6-Methoxy Coumarin**  **Rajesh Kumar Shukla**, Devendra P. Mishra, Anchal Srivastava  XX-National Seminar on Ferroelectric & Dielectrics (NSFD-2018), Dec. 14-16, 2018.  **Page 123** |
|  | 2018 | **Chemical tuning of Perovskite Material for Solar Cell Application**  Amrit Kumar Mishra and **Rajesh Kumar Shukla**  XX-National Seminar on Ferroelectric & Dielectrics (NSFD-2018), , Dec. 14-16,2018 |
|  | 2018 | **Optical Studies of Se90-xTe10Cdx Chalcogenide alloys**  Arvind K. Verma, Susheel K Singh, K. C. Dubey & **R K Shukla**  National Seminar on Science Communication: Issues and Challenges Organized by Department of Physics, Fakhruddin Ali Ahmad Govt. P.G. College, Mahmoodabad, Sitapur, Feb. 16-17,2018. |
|  | 2018 | **Fabrication and Characterization of Perovskite Solar Cell**  **Rajesh Kumar Shukla** and Amrit Kumar Mishra  All India Seminar on Sources of Planet Energy, Environmental & Disaster Science: Climatic Disturbances & Its Global Impact, Organized by School of Management Sciences, Lucknow on 24th & 25th Nov., Page 23, 2018. |
|  | 2018 | **How to Measure BP and Blood Sugar**  **R. K. Shukla**  Health Conclave-2018, Transforming Indian Health, Oct. 5-20, 2018 |
|  | 2018 | **Synthesis and Characterization of Carbon Nanotubes and its Applications**  **R. K. Shukla**  All India Seminar on Souces of Planet Energy, Environmental & Disaster Science: Chimatic Disturbances & Its Global Impact, Organized by School of Management Sciences, Lucknow on 24th & 25th Nov., Page 39, 2018.  **Corresponding Author** |
|  | 2018 | **ZnO nano-microstructures and their Photoconducting Properties, Synthesized by Sol-Gel Method**  **R.K. Shukla,** K.C. Dubey, U.K. Tripathi, Saurabh Dixit & Sheo K. Mishra  All India Seminar on Souces of Planet Energy, Environmental & Disaster Science: Climatic Disturbances & Its Global Impact , Organized by School of Management Sciences, Lucknow on 24th & 25th Nov., Page 61, 2018.  **Corresponding Author** |
|  | 2018 | **Constructional and Visional analysis of Metal doped Se rich Chalcogenides**  Arvind Kuamr Verma, Anchal Srivastava and **R.K. Shukla**  National Symposium on Advanced Materials Science, Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Dec. 7 & 8, Page 86, 2018 |
|  | 2018 | **Experimental Spectroscopic (FT-IR, NMR, UV-VIS) and DFT Studies of 7-Hydroxy-6-Methoxy Coumarin**  **Rajesh Kumar Shukla**, Devendra P. Mishra and Anchal Srivastava  National Symposium on Advanced Materials Science, Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Dec. 7 & 8, Page 87, 2018 |
|  | 2017 | **New Approach to Liquid Dispensing**  **R.K. Shukla**  6th National Conference on Nanomaterials and Nanotechnology (NATCON NAMTECH VI) Organized by Department of Physics, University of Lucknow, Lucknow, U.P, India, during 11-13, Feb 2017. |
|  | 2016 | **Advantages and Disadvantages of API System**  **R K Shukla**  National Seminar on Higher Education: Issues, Challenges, Prospects and Strategies organized by Lucknow University Associated Colleges Teachers’ Association & Mumtaz P.G. College, Lucknow on Sept. 11, 2016 |
|  | 2016 | **How to Encourage Marginalized Section of Society for Scientific Research**  **R K Shukla**  National Seminar on Development of Marginalized Sections of Society: Reflections on Uttar Pradesh organized by Department of Sociology, University of Lucknow, Lucknow on Nov. 9-10, 2016 |
|  | 2016 | **Role of Women in Scientific Research**  **R K Shukla**  National Symposium on The Impact of Unpaid & Invisible care work o the Human Rights of Women organized y Karamat Husain Muslim Girls P.G. College, Lucknow on 7th December 2016 |
|  | 2015 | **Gas Sensing (NH3) from PAni**  **R.K. Shukla**  TEQIP-II Sponsored National Conference on “Recent Advances in Chemical & Materials Science” organized by Department of Applied Sciences, M.M.M. University of Technology, Gorakhpur on 23-24 Feb. 2015 |
|  | 2014 | **Optical Properties of Zn doped SnO2 films**  **R.K. Shukla**  TEQIP-II Sponsored National Conference on “Materials Science and Technology” organized by Department of Applied Sciences, M.M.M. University of Technology, Gorakhpur on 10-11 March 2014 |
|  | 2013 | **On The Three Dimensional Simulation of A Microwiggler FEL Amplifier With An Axial Guide Field**  **R K Shukla**  5th National Conference on Nanotechnology & Materials Science organized by Department of Physics, University of Lucknow on Dec.21-23, 2013 |
|  | 2013 | **Electronic Equipment used in Market**  **R K Shukla**  National Seminar on FDI in Retail Sector in India Myth & Reality, organized y Dept. Of Applied Economics, University of Lucknow. |
|  | 2012 | **How to Improve Cyber Security through Quantum Technology**  **R.K. Shukla**  National Seminar-Cum- Workshop on “Cyber Security: Challenges and Opportunities in 21st Century” Organized by Department of Computer Science, DDU Gorakhpur University, Gorakhpur and National Institute of Electronics & Information Technology, Gorakhpur on Feb. 19-20, 2012 |
|  | 2012 | **ZnO based Films as Gas Sensor**  **R.K. Shukla**  National Seminar-Cum- Workshop on “Recent Advances in Digitial and Analog Signal Processing” Organized by Department of Electronics, DDU Gorakhpur University, Gorakhpur and National Institute of Electronics & Information Technology, Gorakhpur on Feb. 21-22, 2012 |
|  | 2012 | **Optical Properties of ZnO Nanorods by Sol-Gel Method**  **R K Shukla**  National Seminar on Active and Smart Materials, organized by Department of Applied Science, MMM Engineering College, Gorakhpur, 23-24 March 2014 |
|  | 2011 | **On The Three Dimensional Simulation of A Microwiggler Free-Electron Laser Amplifier**  **R K Shukla**  16th Natioal Seminar on Physics and Technology of Sensors, organized by Department of Physics, University of Lucknow, Lucknow on Feb. 11-13, 2011 |
|  | 2011 | **Radiation At Higher Free Electron Laser Frequencies**  4th National Conference on Nanomaterials and Nanotechnology, Organized by Department of Physics, at University of Lucknow, Lucknow, U.P, India, during 21-23, Dec 2011.  Page |
|  | 2009 | **Space Charge Effects In Fel With Axial Guide Field**  **R.K. Shukla**  2nd National Conference on Nanomaterials and Nanotechnology, Department of Physics, University of  Lucknow, Lucknow 21-23 December, 2009. |
|  | 2009 | **Optical Characterizations of Sol-gel Derived ZnO Thin Films by He-Ne Laser**  K. P. Misra, Atul Srivastava, **R. K. Shukla** and Anchal Srivastava  National symposium on Advances in Laser and Spectroscopy-2009, Department of Physics and Electronics, Dr. Hari Singh Gour University, Sagar M.P. |
|  | 2009 | **Introduction To Thin /Thick Films**  **r.k. sHUKLA**  National Conference On Applicatin Of Material Science In The Service Of The Society Orgaized By CMP Degree College, University Of Allahabad, Sept. 12-13, 2009. |
|  | 2009 | **Thermal Properties of CuO doped Polyaniline**  **R. K. Shukla**  Meghnad Saha Memorial Symposium on Emerging Trends in Laser & Spectroscopy and Application organized by Department of Physics, University of Allahabad, March 23-25, 2009 |
|  | 2008 | **Optical Properties of Tellurium-rich Te90Se10 and Selenium-rich Se90Te10 Chalcogenide powder: A comparative study**  **R K Shukla**  Seminar on Frontiers of Spectroscopy (SFS-2008) organized by University of Lucknow, Lucknow & MRSI-Lucknow Chapter on Nov. 10-11, 2008 |
|  | 2008 | **Synthesis, spectroscopic and chemical reactivity analysis of 7-Hydroxy-6- methoxy coumarin using quantum chemical approach and its experimental verification**  **R K Shukla**  13th National Seminar on Physics & Technology of Sensors organized by Centre for Sensor Studies, Department of Electronics Science, University of Pune on March 3-5, 2008 |
|  | 2007 | **Synthesis and Optical Studies of Chemically Synthesized CuO/PAni Nanocomposites**  **R K Shukla**  National Conference on Nanomaterials & Nanotechnology organized by Department of Physics, University of Lucknow, Lucknow on 08-10 Dec. 2007 |
|  | 2006 | **Humidity Response of Polyaniline Based Sensor**  **R.K. Shukla**  7th AGM OF THE Materials Research Society of India (MRSI) Organized by University of Lucknow & MRSI-Lucknow Chapter on 13-15 February 2006 |
|  | 2005 | **Introduction to XRD**  **R.K. Shukla**  National Symposium On Current Trends In Materials Characterization, Organized By Advanced Center For Materials Science, IIT, Kanpur On Dec. 5-7, 2005 |
|  | 1994 | **Simulation of a Microwiggler Free Electron Laser taking into account the effect of input Radiation Beam Profile**  L.M. Bali, T.P. Pandya, P. Jha, A. Srivastava and **R. K. Shukla** National Laser Symposium, CAT, Indore, India, Jan.29-Feb.1, (1994). |
| 38 | 1994 | **Elliptical Radiation with Helical Wiggler Free Electron Laser**  Anchal Srivastava, T.P. Pandya, L.M. Bali, **R.K. Shukla** and V. Saxena  National Laser Symposium, CAT, Indore, India, Jan.29-Feb.1, (1994). |
| 39 | 1993 | **FEL with Linear Wiggler and Axial Magnetic Fields**  T.P. Pandya, L.M. Bali, P. Jha, A. srivastava, **R.K. Shukla** and V. Saxena  National Laser Symposium, I.I.T., Madras, Feb.17-19, (1993). |

**Full Paper in Seminars/Conferences Proceedings**

**International Level:**

|  |  |  |
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| **S.No.** | **Year** | **Topic** |
|  | **2016** | **Structural, Optical Properties of Te –rich Te50Cd20Cu20Se10 Glassy Chalcogenide by Powder and Film**  Arvind Kumar Verma, R.K. Shukla and K.C. Dubey  Proceedings of 3rd Seminar on Sources of Planet Energy, Environmental & Disaster Science: Challenges and Strategies (SPEEDS-2016)  Page 422  **Corresponding Author** |
| 1. **Y** | **2005** | **Effect of Corrosion of H2S on Zinc Oxide Coated U-Shaped Humidity Sensor**  Farha Deba, Anchal Srivastava, **R. K. Shukla** and Atul Srivastava  Proceedings of International Conference on Optics and Optoelectronics,organized by IRDE Dehradun, Dec. 12-15, 2005 |
| 1. **Y** | **2000** | **Refractometer Sensor With Enhanced Sensitivity Over A Large Range Of Refractive Index**  L.M. Bali, **R.K. Shukla**, Anchal srivastava, M. Kumar  Optics and Photonics (Vol.II) Dec. 18-20, 2000, pp. 759 |
| 1. **Y** | **1998** | **Prism Based Fibre Optical Refractometer Sensors**  L.M. Bali, Atul Srivastava, **R.K. Shukla** and Anchal Srivastava PHOTONICS-98: International Conference on Fiber Optics & Photonics, Dec.14-18, (1998), I.I.T., Delhi, p.341.  ISBN: **81-7319-285-5** |

**National Level:**

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| **S.No.** | **Year** | **Topic** |
|  | **2010** | **Polyaniline and Polyaniline-Metal Oxide Composite based Humidity Sensor**  **R.K.Shukla**, Mamta Pandey, K.C Dubey and Dharmendra Mishra  Proceedings of the 15th National Seminar on Physics and Technology of Sensors (NSPTS-15), Organized by Center for Sensor Studies, Department of Electronic Science, University of Pune, Pune, 4-6, March, 2010.C6-1 – C6-3.  **Corresponding Author** |
|  | **2008** | **Pulsed Laser Deposited Nanocrystalline Zinc Oxide Films As Temperature Sensor**  K.C. Dubey, K.P. Misra, Atul Srivastava, Anchal Srivastava, **R.K. Shukla**  Proceedings of 13th National Seminar on Physics and Technology of sensors (NSPTS-13), Pune University, March 3-5,(2008), p. C-7-1 to C-7-2.  **Corresponding Author** |
|  | **2007** | **Indium tin Oxide thin film Gas Sensors for detection of Ethanol Vapors**  K. D. Misra, **R. K. Shukla** and H. J. Pandya  Proceedings of the National Seminar on Emerging Trends in Communication organized by Dept. Of Electronics and Communication Engineering, ABES Engineering College, Ghaziabad o Dec. 7-8, 2007, pp.117 |
|  | **2007** | **Optoelectronic Evaporation Rate Measurement Sensor**  **R.K. Shukla,** Atul Srivastava, Anchal Srivastava, V.K. Dwivedi and D. Misra  12th National Seminar on Physics and Technology of Sensors (NSPTS-12), 7-9 March. 2007, Mumbai. Page 246.  **Corresponding Author** |
|  | **2006** | **Analytical Determination of the Mask Design for the Refractometer Sensor of High Sensitivity over a Large Range of Refractive Indices**  Srivastava Anchal, Srivastava Atul, **R.K. Shukla**, Srivastava Manoj, Kumar Mahendra and Dixit Shobhna  NSPTS-11, 27th Feb. – 1st March., 2006, p. C16-1 |
|  | **2005** | **Effect Of Annealing Temperature On ZnO Coated Humidity Sensor**  **R.K. Shukla,** Anchal Srivastava, Atul Srivastava, Shobhana Dixit and G.C. Dubey  Workshop On Thin Films Coatings, Organized by the Optical Society of India, Dehradun & IRDE, Deharadun, March 11-12, 2005. |
|  | **2005** | **Design of a Prism ased Refractometer Sensor Having Adjustable Range** of RI Measurement  **R.K. Shukla,** Anchal Srivastava, Atul Srivastava, M.K. Srivastava and L.M. Bali  Workshop On Thin Films Coatings,Organized by the Optical Society of India, Dehradun & IRDE, Deharadun, March 11-12, 2005 page 90 |
|  | **2004** | **Zinc Oxide Coated U- Shaped Humidity Sensor**  Anchal Srivastava, **R. K. Shukla**, Atul Srivastava and Farha Deba Proceedings of the National Seminar on Science and Technology of Thin Films organized by Rajarshi Shahu Mahavidyalaya, Latur (MS) India Oct. 15-17 (2004) page 139. |
|  | **2000** | **Ceramic Type Thick Film Humidity Sensors**  L.M. Bali, **R.K**.**Shukla**, P.Misra, S. Pal, R.A. Singh and G.C. Dubey  Proceedings of 7th NSPTS, Pune 14-16, Feb.(2000), p.C35.1. |
|  | **2000** | **Optical Humidity Sensors**  L.M. Bali, G.C. Dubey, B.C. Yadav, **R.K**. Shukla, Anchal Srivastava, Atul Srivastava, A. Kulshreshtha and R.N. Singh  Proceedings of 7th NSPTS, Pune 14-16, Feb. (2000), p.C30.1. |
|  | **1998** | **An Optical Sensor To Monitor Glucose Concentration**  L.M. Bali, **R.K. Shukla**, Anchal Srivastava, Atul Srivastava, B.C. Yadav and Mahendra Kumar  5th National Seminar on Physics and Technology of Sensors, Pune University, Feb. 2-4 (1998), P.C22.1. |
|  | **1998** | **A Sensitive Optical Sensor to Monitor Glucose Concentration**  L.M. Bali, B.C. Yadav, **R.K. Shukla**, Anchal Srivastava, Atul Srivastava  Proceedigs of National Laser Symposium, held on Centre for Laser Technology & Department of Physics, IIT Kanpur, Dec. 14-16, 1998, pp.209 |
|  | **1997** | **Optical Sensor For Monitoring Changes In Refractive Index**  L.M. Bali, **R.K.Shukla**, Atul Srivastava, Anchal Srivastava and Rashmi Singh  Proceedings of the National Laser Symposium, P.R.L., Ahmedabad, Dec.10-12 (1997), p.308. |
|  | **1994** | **Simulation of a Microwiggler Free Electron Laser taking into account the effect of input Radiation Beam Profile**  L.M. Bali, T.P. Pandya, P. Jha, A. Srivastava and **R. K. Shukla** Proceedings of National Laser Symposium, CAT, Indore, India, Jan.29-Feb.1, (1994), p.80. |
|  | **1994** | **Elliptical Radiation with Helical Wiggler Free Electron Laser**  Anchal Srivastava, T.P. Pandya, L.M. Bali, **R.K. Shukla** and V. Saxena  Proceedings of National Laser Symposium, CAT, Indore, India, Jan.29-Feb.1, (1994), p.78. |
|  | **1993** | **FEL with Linear Wiggler and Axial Magnetic Fields**  T.P. Pandya, L.M. Bali, P. Jha, A. srivastava, **R.K. Shukla** and V. Saxena  Proceedings of National Laser Symposium, I.I.T., Madras, Feb.17-19, p.112 (1993). |

**Invited Talk**

**International Level:**

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| S.No | Year | Topic /Place |
|  | 2019 | **Laser used in Medical Diagnosis & Therapy**  **R.K. Shukla**  International Symposium on Advances in Functional & Biological Materials; Organized by Humboldt Academy Lucknow & Physics Department, University of Lucknow on 28 Feb. 2019 |
|  | 2019 | **Carbon Nanotubes and its Applications**  **R.K. Shukla**  1st International Conference on Bio-Psychosocial Perspective of Trauma, Jan. 13, 2019 |
|  | 2019 | **Characterization of Copper added Tellurium-rich Chalcogenide Thin Films**  **R.K. Shukla**  106th Indian Science Congress organized y Lovely Professional University, Jalandhar on 3-7 Jan. 2019 |
|  | 2018 | **Preparation and Characterization of Pure and Metal Oxides Doped PAni Composite for Promising Humidity Sensing Analysis at Different Frequencies**  **R.K. Shukla**  International Conference on Multifunctional Advanced Materials, Organized by Kamla Nehru Mahavidyalaya and Dharampeth M.P. Deo Memorial Science College, Nagpur on Oct. 5-7, 2018, Page 9. |
|  | 2016 | **Processing Techniques for Composite Materials**  **R.K. Shukla**  International Conference on New Scintillations on Materials Horizon Organized by Dept. Of Applied Physics, MJP Rohilkhand University, Bareilly, Oct. 21-23, 2016 |
|  | 2016 | **Ammonia Gas Sensing Behavior of TiO2 Doped Polypyrrole**  **R.K. Shukla**  International Conference on Advances in Light Technologies and Spectroscopy of Materials (ICALTSM-2016) organized y Department of Physics, University of Lucknow and Laser and Spectroscopy Society of India on Jan. 16-18, 2016 |
|  | 2014 | **Synthesis, Characterization and Dielectric behaviour of polyaniline powder**  **R.K. Shukla**  International Conference on Advanced Materials and Applications (ICAMA-14) organized by Centre of Material Sciences, University of Allahaad, during March 24-26, 2014 |
|  | 2014 | **Importance of Materials in Engineering**  **R.K. Shukla**  International workshop “Futuristic Materials: Characterization Properties and Applications in Technology organized by Dept. Of Applied Physics, MJP Rohilkhand University, Bareilly, July 17-22, 2014 |
|  | 2013 | **Introduction to Carbon Nantubes**  **R.K. Shukla**  International Symposium on Nanomaterials: Applications & Safety organized by Amity University, UP, 2 Feb. 2013. |

**Invited Talk**

**National Level:**

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| **S.No.** | **Year** | **Topic /Place** |
|  | 2019 | **Structural and Optical study of Cadmium doped Se-rich Chalcogenide**  **R.K. Shukla**  National Conference on Recent trends Advancements in Chemical Sciences Organized by Department of Chemistry and B. College of Applied Sciences, University of Delhi,29-31 March, 2019. pp.38 |
|  | 2019 | **Synthesis and Characterization of Se-Te based Chalcogenides**  **R.K. Shukla**  National Seminar on Recent Advances in Material Science and Electronics, Organized by Dr. Rammanohar Lohia Avadth University, Ayodhya, 27-28 Feb. 2019, pp.22 |
|  | 2019 | **Working of UV-VIS & FTIR**  **R.K. Shukla**  National Seminar on Recent Advances in Applied Biochemistry and Biotechnology (RAABB 2019): March 9, 2019, Department of Biochemistry, University of Lucknow, Lucknow |
|  | 2018 | **Development of Communication Systems**  Delivered a Lecture in the Refresher Course on Social Work & Social Development in Era of Post Modernization (ID) organized by UGC- Human Resource Development Centre of Guru Ghasidas Vishwavidyalaya, Bilaspur on 16.12.2018 |
|  | 2018 | **Physical and Chemical Thin Film Deposition Techniques**  **R K Shukla**  National Seminar on Science Communication: Issues and Challenges Organized by Department of Physics, Fakhruddin Ali Ahmad Govt. P.G. College, Mahmoodabad, Sitapur, Feb. 16-17, **page 50**, 2018. |
|  | 2018 | **Electrochemically Prepared Polyaniline and its Applications**  **R. K. Shukla**  XX-National Seminar on Ferroelectric & Dielectrics (NSFD-2018), organized y Department of Pur & Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur on Dec. 14-16, 2018  **Page 36** |
|  | 2018 | **Synthesis of Conducting Polyaniline by Electrochemical method**  **R.K. Shukla**  National Symposium on Advanced Materials Science, Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Dec. 7 & 8, 2018 |
|  | 2018 | **Thin Films and Its Applications**  **R.K. Shukla**  Delivered a Lecture in the Refresher Course in Physics organized by UGC- Human Resource Development Centre, University of Allahabad, Allahabad on Nov. 26, 2018 |
|  | 2018 | **Advances in Nanotechnology & their Opto-Electronic, Photovoltaic Applications**  **R.K. Shukla**  Delivered an Invited Lecture at Central Institute of Plastics Engineering & Technology, Lucknow during 25-30 June 2018 |
|  | 2015 | **Dielectric Properties of Electrochemically Synthesized Sulphonated Polyaniline**  **R.K. Shukla**  9th National Conference on Solid State Chemistry and Allied Areas (ISCAS-2015), Organized by Bhaskaracharya College of Applied Sciences (University of Delhi) during May 8-10, 2015. |
|  | 2015 | **Synthesis and Characterization Techniques in Material Science: Nanomaterials**  **R.K. Shukla**  TEQIP-II SPONSORED National Conference on Recent Advances in Chemical and Materials Science (NCRACMS-15) organized y Department of Applied Sciences, M.M.M. University of Technology, Gorakhpur on 23-24 Feb. 2015 |
|  | 2014 | **Gas and Humidity Sensors based on Semiconducting Oxide and Conducting Composite Polymer Materials**  **R K Shukla**  AICTE- Sponsored National Seminar on Active and Smart Materials, organized by Department of Applied Science, MMM Engineering. College, Gorakhpur, 23-24 March 2014 |
|  | 2007 | **Structural and optical properties of ZnO nanostructures synthesized by sol-gel method**  **R. K. Shukla**  National Conference on Network Security and Management Organized by Dept. Of Computer Science, University of Lucknow, Oct. 5-6, 2007 |

**Invited Talk**

**State Level/Local Level:**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Year** | **Topic /Place** |
|  | 2019 | **Thin Film Techniques**  Delivered a Invited Talk at Santosh Smarak Mahavidhyalaya, affiliated to M.J.P. Rohilkhand University, Bareilly on 03.06.2019 |
|  | 2019 | **Sensor**  Delivered a Guest Lecture at Lucknow Public College of Professional Studies on 14.05.2019 |
|  | 2019 | **Fiber Optics**  Delivered a Guest Lecture at Lucknow Public College of Professional Studies on 25.04.2019 |
|  | 2019 | **Principle of LASER and its Applications**  Delivered a Lecture at School of Management Sciences Lucknow on 18th April, 2019 |
|  | 2019 | **Fiber Optic Sensors**  Delivered an Invited Lecture at BSNV PG College, Lucknow on 11-04-2009 |
|  | 2019 | **Thin Film Technology**  Delivered an Invited Lecture at BSNV PG College, Lucknow on 12-04-2009 |
|  | 2019 | **Instruments in Physics Practical**  Delivered an Invited Lecture at Shia P.G. College, Lucknow on 2nd April 2019 |
|  | 2019 | **Applications of Fiber in Medical**  Delivered an Invited Lecture at Kalawati Ayurvedic Medical College & Research Centre & Hospital, Kasganj on 18.03.2019 |
|  | 2019 | **Raman Effect**  Delivered an Expert Lecture on National Science Day at Institute of Engineering & Technology, Dr. Rammanohar Lohia Avadh University, Faizabad on 1 March 2019 |
|  | 2019 | **Advances in Optical Fiber Communications**  Delivered an Invited Lecture at Central Institute of Plastics Engineering & Technology, Lucknow on 28th Feb. 2019 |
|  | 2019 | **Fiber Optics**  Delivered an Invited Lecture on National Science Day at Maharishi University of Information Technology, Lucknow on Feb. 28, 2019 |
|  | 2019 | **Optical Fiber and its Applications**  Delivered an Invited Lecture at Bright Career Girls Degree College, Lucknow on Feb. 23, 2019 |
|  | 2019 | **Measurement Techniques of Thin Films**  Delivered an Invited Lecture at Department of Physics and Electronics, Dr. Rammanohar Lohia Avadh University, Faizabad on 22 Feb. 2019 |
|  | 2019 | **Basic ideas on Fiber Optics**  Delivered Lecture at School of Management Sciences Lucknow on 15th Feb. 2019 |
|  | 2019 | **Introduction to Communication System**  Delivered an Invited Lecture at Department of Physics and Electronics, Dr. Rammanohar Lohia Avadh University, Faizabad on 08 Feb. 2019 |
|  | 2019 | **Lasers and its Application**  Delivered an Expert Lecture at Institute of Engineering & Technology, Dr. Rammanohar Lohia Avadh University, Faizabad on 08 Feb. 2019 |
|  | 2019 | **Basics of Optical Fiber Communications**  Delivered an Invited Lecture at Central Institute of Plastics Engineering & Technology, Lucknow on 7th Feb. 2019 |
|  | 2019 | **Optoelectronics and Lasers**  Delivered a Talk at Heeralal Yadav Balika Degree College, Lucknow on 07.02.2019 |
|  | 2019 | **Non Linear Optics**  Delivered a Talk at Department of Physics, Heeralal Yadav Balika Degree College, Lucknow on 07.02.2019 |
|  | 2019 | **Optical Measuring Device and Measurement**  Delivered a Talk at Department of Physics, Heeralal Yadav Balika Degree College, Lucknow on 04.02.2019 |
|  | 2019 | **Thin Film Techniques**  Delivered a Talk at Department of Physics, Heeralal Yadav Balika Degree College, Lucknow on 04.02.2019 |
|  | 2019 | **Ampere’s Circuital Theorem and its Applications**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 01-02-2019 |
|  | 2019 | **Basics of Fiber Optics**  Delivered a Lecture at Shri J.N.P.G. College, Lucknow on 28.01.2019 |
|  | 2019 | **Modern Optics**  Delivered an Invited Lecture at BSNV PG College, Lucknow on 28.01.2019 |
|  | 2019 | **Fundamentals of Fiber Optics**  Delivered an Invited Lecture at Shia P.G. College, Lucknow on 25th Jan. 2019 |
|  | 2019 | **Recent Trends in Communication**  Delivered an Invited Lecture at Shia P.G. College, Lucknow on 25th Jan. 2019 |
|  | 2019 | **Fabrication of Optical Fiber**  Delivered Lecture at M.L.K. (P.G.) College, Balrampur on 21th Jan. 2019 |
|  | 2019 | **Basic Ideas on Fiber Optics**  Delivered Lecture at M.L.K. (P.G.) College, Balrampur on 21th Jan. 2019 |
|  | 2019 | **Fiber Optics**  Delivered an Invited Lecture at BSNV PG College, Lucknow on 20-01-2009 |
|  | 2019 | **Optical Fiber Communications**  Delivered a Talk at Department of Physics, C.M.P. College, Prayagraj on 17-01-2019 |
|  | 2018 | **Energy Sources and their Application in Agriculture**  Delivered an Invited Lecture at Shri Mahesh Prasad Degree College, Lucknow on Dec. 27, 2018 |
|  | 2018 | **Agriculture and Laser**  Delivered an Invited Lecture at Shri Mahesh Prasad Degree College, Lucknow on Dec. 26, 2018 |
|  | 2018 | **Recent Trend in Fibre Optics**  Delivered an Invited Lecture at Navyug Kanya Mahavidyalaya, Lucknow on 20th Dec. 2018 |
|  | 2018 | **Optical Fiber Communication**  Delivered a Talk at Pioneer Girl’s Degree College, Lucknow on Dec. 10, 2018 |
|  | 2018 | **Lasers and Optoelectronics**  Delivered a Lecture at Islamia College of Commerce, Gorakhpur on 08.12.2018 |
|  | 2018 | **Optical Fiber Communication**  Delivered an Invited Lecture at Subhas Chandra Bose Institute of Higher Education, Lucknow on Dec.05, 2018 |
|  | 2018 | **Basic Ideas on Fiber Optics**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 1st Dec. 2018 |
|  | 2018 | **Light Emitting Diode**  Delivered Lecture at Amiruddaula Islamic Degree College, Lucknow on 04-12-2018 |
|  | 2018 | **Lasers and its Properties**  Delivered an Invited Talk at Department of Physics, Agra College, Agra on 30.11.2018 |
|  | 2018 | **Principle of Transmission Through Optical Fibre**  Delivered an Invited Talk at Department of Physics, Agra College, Agra on 30.11.2018 |
|  | 2018 | **Maxwell’s Equation and Wave Equation**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Nov. 29, 2018 |
|  | 2018 | **Introduction to Optical Fiber**  Delivered a Talk at Department of Physics, C.M.P. College, Prayagraj on 26-11-2018 |
|  | 2018 | **Two Classes of Diffraction**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 14.11.2018 |
|  | 2018 | **Important Methods in Experimental Techniques**  Delivered an Invited Lecture at Department of Physics and Electronics, Dr. Rammanohar Lohia Avadh University, Faizabad on 31 Oct. 2018 |
|  | 2018 | **Introduction to Quantum Mechanics**  Delivered an Invited Talk at Bright Career Girls Degree College, Lucknow on Oct. 15, 2018 |
|  | 2018 | **Introduction to Quantum Mechanics**  Delivered a Talk at Pioneer Girl’s Degree College, Lucknow on Oct. 11, 2018 |
|  | 2018 | **Magnetic Properties of Matter**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Oct. 01, 2018 |
|  | 2018 | **Laser and its Applications**  Delivered a Talk at Department of Physics, Heeralal Yadav Balika Degree College, Lucknow on 22.09.2018 |
|  | 2018 | **Lasers and Holography**  Delivered a Talk at Department of Physics, Heeralal Yadav Balika Degree College, Lucknow on 20.09.2018 |
|  | 2018 | **Optical Fiber Communication**  Delivered a Talk at Department of Physics, GSRM PG College, Lucknow on 20.09.2018 |
|  | 2018 | **Production of Polarized Light**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Aug. 10, 2018 |
|  | 2018 | **Fibre Optics and its Applications**  Delivered a Talk at Department of Physics and Electronics, Dr. Rammanohar Lohia Avadh University, Faizabad on 08 Sept. 2018 |
|  | 2018 | **Fiber Optic Sensor**  Delivered a Talk at Department of Physics, GSRM PG College, Lucknow on 02.08.2018 |
|  | 2018 | **Optical System Design Aspects**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 30.07.2018 |
|  | 2018 | **Optical System Design Aspects**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 30.07.2018 |
|  | 2018 | **Principle of Transmission through Optical Fiber**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 28.07.2018 |
|  | 2018 | **Optical Sources and Detectors**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 21.05.2018 |
|  | 2018 | **Optical Sources and Detectors**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 21.05.2018 |
|  | 2018 | **Self Induction and its Determination**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 26.03.2018 |
|  | 2018 | **Optical Fiber Components and Devices**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 12.03.2018 |
|  | 2018 | **Optical Fiber Components and Devices**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 12.03.2018 |
|  | 2018 | **Synthesis of thick and thin films**  Delivered an Invited Lecture at Department of Physics and Electronics, Dr. Rammanohar Lohia Avadh University, Faizabad on 10 March 2018 |
|  | 2018 | **Characterisation of thick and thin films**  Delivered an Invited Lecture at Department of Physics and Electronics, Dr. Rammanohar Lohia Avadh University, Faizabad on 10 March 2018 |
|  | 2018 | **Laser and its Applications**  Delivered an Invited Lecture at Subhas Chandra Bose Institute of Higher Education, Lucknow on Feb. 15, 2018 |
|  | 2018 | **Optical**-**Fiber-Communications-Principles**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 22.01.2018 |
|  | 2018 | **Optical-Fiber-Communications-Principles**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 22.01.2018 |
|  | 2018 | **Fabrication of Optical Fibers**  Delivered a Talk at Department of Physics, Heeralal Yadav Balika Degree College, Lucknow on 16.01.2018 |
|  | 2018 | **Laser and its Applications**  Delivered a Talk at Pioneer Girl’s Degree College, Lucknow on Jan. 09, 2018 |
|  | 2018 | **Mutual Induction and its Determination**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 08.01.2018 |
|  | 2017 | **Force and Energy in Dielectrics**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Nov. 30, 2017 |
|  | 2017 | **Introduction to Quantum Mechanics**  Delivered an Invited Lecture at Subhas Chandra Bose Institute of Higher Education, Lucknow on Nov. 20, 2017 |
|  | 2017 | **Magnetic Properties of Matter**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 15.11.2017 |
|  | 2017 | **Waveguide Dispersion**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 13.11.2017 |
|  | 2017 | **Waveguide Dispersion**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 13.11.2017 |
|  | 2017 | **Ampere’s Circuital Theorem ad its Applications**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Oct. 30, 2017 |
|  | 2017 | **Basics of Fiber Optics**  Delivered Special Lecture at Department of Applied Physics, M.J.P. Rohilkhand University, Bareilly on 28.10.17 |
|  | 2017 | **Elements and Techniques of Laser**  Delivered Special Lecture at Department of Applied Physics, M.J.P. Rohilkhand University, Bareilly on 11.10.17 |
|  | 2017 | **Principle of Betatron and its Application**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 28.09.2017 |
|  | 2017 | **Optical Fiber Waveguide**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 11.09.2017 |
|  | 2017 | **Optical Fiber Waveguide**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 11.09.2017 |
|  | 2017 | **Electromagnetic Analysis of Waveguide**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 28.08.2017 |
|  | 2017 | **Polaroids and its Applications**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on 21.08.2017 |
|  | 2017 | **Laser Applications in Medicine and Surgery**  Delivered Special Lecture at Department of Applied Physics, M.J.P. Rohilkhand University, Bareilly on 05.07.2017 |
|  | 2017 | **Electromagnetic Waves in Dielectrics**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 22.05.2017 |
|  | 2017 | **Electromagnetic Waves in Dielectrics**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 22.05.2017 |
|  | 2017 | **Propagation in Infinitely Extended Dielectric**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 20.03.2017 |
|  | 2017 | **Propagation in Infinitely Extended Dielectric**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 20.03.2017 |
|  | 2017 | **Need for Optical Communication**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 13.02.2017 |
|  | 2017 | **Need for Optical Communication**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 13.02.2017 |
|  | 2017 | **Transmission Characteristics in Fiber**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 30.01.2017 |
|  | 2016 | **Fiber Optics Technology**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 21.11.2016 |
|  | 2016 | **Fiber Optics Technology**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 21.11.2016 |
|  | 2016 | **Light Emitting Diode**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Nov. 15, 2016 |
|  | 2016 | **Optical Fiber Fabrication**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 24.10.2016 |
|  | 2016 | **Optical Fiber Fabrication**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 24.10.2016 |
|  | 2016 | **Salient Features of Optical Fiber**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 19.09.2016 |
|  | 2016 | **Salient Features of Optical Fiber**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 19.09.2016 |
|  | 2016 | **Two Classes of Diffraction**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Sept. 10, 2016 |
|  | 2016 | **Principle of Transmission through Optical Fiber**  Delivered an Invited Talk at D.A.V. P.G. College, Lucknow on Jan. 11, 2016 |
|  | 2014 | **Mutual Induction and its Determination**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 09.10.2014 |
|  | 2014 | **Production of Polarized Light**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Nov. 18, 2014 |
|  | 2014 | **Oscillatory and Simple Harmonic Motions**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Oct. 27, 2014 |
|  | 2014 | **Magnetic Properties of Matter**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 22.08.2014 |
|  | 2014 | **Principle of Betatron**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 13.01.2014 |
|  | 2013 | **Polaroids and its Applications**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 29.11.2013 |
|  | 2013 | **Principle of Betatron and its Application**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Nov. 07, 2013 |
|  | 2013 | **Superposition of Waves**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Oct. 04, 2013 |
|  | 2013 | **Maxwell’s Equation and Wave Equation**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 04.10.2013 |
|  | 2013 | **Frequency of Oscillator and Quality Factor**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Sept. 28,2013 |
|  | 2013 | **Polaroid’s and its Applications**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Aug. 27, 2013 |
|  | 2013 | **Magnetic Properties of Matter**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 07.08.2013 |
|  | 2012 | **Magnetic Properties of Matter**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Dec. 10, 2012 |
|  | 2012 | **The basic Principle of Holography**  Amity University, Uttar Pradesh, Lucknow Campus on Nov. 29, 2012 |
|  | 2012 | **Principle of Transmission through Optical Fibre**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Nov. 23, 2012 |
|  | 2012 | **Production of Polarized Light**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 07.11.2012 |
|  | 2012 | **Polaroid’s and its Applications**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Oct. 15, 2012 |
|  | 2012 | **Force and Energy in Dielectrics**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 18.08.2012 |
|  | 2012 | **Two Classes of Diffraction**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Aug. 29, 2012 |
|  | 2012 | **Application of Guass’s Law**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 26.03.2012 |
|  | 2012 | **Application of Guass’s Law**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 26.03.2012 |
|  | 2012 | **Introduction to Zeeman Effects**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 30.01.2012 |
|  | 2012 | **Introduction to Zeeman Effects**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 30.01.2012 |
|  | 2012 | **Light Emitting Diode**  Delivered an Invited Talk at Dr. Asha Smriti Mahavidhyalaya, Lucknow on Jan 31, 2012 |
|  | 2012 | **Ampere’s Circuital Theorem and its Applications**  Delivered an Invited Talk at P.M.S. Degree College, Lucknow on 12.01.2012 |
|  | 2011 | **Ampere’s Circuital Theorem and its Applications**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Nov. 25, 2011 |
|  | 2011 | **Introduction to Maxwell’s Equations**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 14.11.2011 |
|  | 2011 | **Introduction to Maxwell’s Equations**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 14.11.2011 |
|  | 2011 | **Light Emitting Diode**  Delivered a Talk at P.M.S. Degree College, Lucknow on 08.11. 2011 |
|  | 2011 | **Resolving Power of Telescope and a Microscope**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Oct. 14, 2011 |
|  | 2011 | **Two Classes of Diffraction**  Delivered an Invited Lecture at P.M.S. Degree College, Lucknow on 27.09. 2011 |
|  | 2011 | **Principle of Transmission through Optical Fiber**  Delivered an Invited Lecture Talk at P.M.S. Degree College, Lucknow on 29.07. 2011 |
|  | 2011 | **Introduction to Quantum Mechanics**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 25.04.2011 |
|  | 2011 | **Introduction to Quantum Mechanics**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 25.04.2011 |
|  | 2011 | **Processing Techniques for Composite Materials**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 28.02.2011 |
|  | 2011 | **Processing Techniques for Composite Materials**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 28.02.2011 |
|  | 2010 | **Thermal and Optical Properties of Materials**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 20.12.2010 |
|  | 2010 | **Thermal and Optical Properties of Materials**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 20.12.2010 |
|  | 2010 | **Fabrication of Optical Fibers**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Nov. 30, 2010 |
|  | 2010 | **Importance of Materials in Engineering**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 25.10.2010 |
|  | 2010 | **Importance of Materials in Engineering**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 25.10.2010 |
|  | 2010 | **Electric Dipole: moment, field and potential**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Oct. 18,2010 |
|  | 2010 | **Introduction to general lasers and their types**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on Oct. 4,2010 |
|  | 2010 | **Optical Fiber and its Transmission Characteristics**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 30.08.2010 |
|  | 2010 | **Optical Fiber and its Transmission Characteristics**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 30.08.2010 |
|  | 2010 | **Superposition of Waves**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Aug. 25,2010 |
|  | 2010 | **Technology used in Optical Fiber Communication Systems**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 15.04.2010 |
|  | 2010 | **Technology used in Optical Fiber Communication Systems**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 15.04.2010 |
|  | 2010 | **Introduction to Optical Fiber Communication Systems**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 22.02.2010 |
|  | 2010 | **Introduction to Optical Fiber Communication Systems**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 22.02.2010 |
|  | 2010 | **Mutual Induction and its determination**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Feb. 02, 2010 |
|  | 2009 | **Principle of Laser and General Lasers**  Delivered Lecture at Department of Instrumentation, DDIVE, Dr. Bhimrao Ambedkar University, Agra on 21.12.2009 |
|  | 2009 | **Principle of Laser and General Lasers**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 21.12.2009 |
|  | 2009 | **Two Classes of Diffraction**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Dec. 14, 2009 |
|  | 2009 | **Grating and Prism Spectra**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Oct. 30, 2009 |
|  | 2009 | **Elements and Techniques of Laser**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 22.09.2009 |
|  | 2009 | **Detection of Polarized Light**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Aug. 21, 2009 |
|  | 2009 | **Laser Applications in medicine and Surgery**  Delivered Lecture at Department of Physics, Institute of Basic Sciences, Dr. Bhimrao Ambedkar University, Agra on 25.05.2009 |
|  | 2009 | **Production of Polarized Light**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Jan. 27, 2009 |
|  | 2008 | **Methods of Producing Interference Pattern**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Dec. 12, 2008 |
|  | 2008 | **Young’s Double Slit Experiment**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Oct. 25, 2008 |
|  | 2008 | **Oscillatory and Simple Harmonic Motion**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College on Aug. 18, 2008 |
|  | 2007 | **Elastic and Inelastic Collisions**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Dec. 04, 2007 |
|  | 2007 | **Central Force: A Conservative Force**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Oct. 30, 2007 |
|  | 2007 | **Dynamics of Rigid Body**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Feb. 08, 2007 |
|  | 2006 | **Resolving Power and Rayleigh Criterion**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Nov. 18, 2006 |
|  | 2006 | **Origin of Optical Activity**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Aug. 28, 2006 |
|  | 2006 | **Phenomenon of Double Refraction**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Feb.17, 2006 |
|  | 2006 | **Diffraction Grating and its Types**  Interference in Thin Films  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Jan 10, 2006 |
|  | 2005 | **Zone Plate and its Construction**  Interference in Thin Films  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Dec. 16, 2005 |
|  | 2005 | **Interference in Thin Films**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Oct. 26, 2005 |
|  | 2005 | **Forced Harmonic Oscillations**  Delivered an Invited Lecture at Amiruddaula Islamic Degree College, Lucknow on Sept. 20, 2005 |

**List of Research Papers in Journals**

**International Level:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Year | Topic | | |
| 1. 1 |  | Preparation of Lithium Tetraborate Nanocrystals by Melt-uenching Method and their CharacterizationAIPCorresponding Author | | |
|  | 2020 | Fabrication and Characterization of Perovskite (CH3NH3PI3) Solar Cells Amrit Kumar Mishra ad R. K. Shukla  SN Applied Sciences (2020)2:321  <http://doi.org/10.1007/s42452-020-2054-3>  **Corresponding Author** | | |
|  | | | 2020 | Theoretical Study of Pure/Doped (Nitrogen and Carbon) Carbon nanotubes for Chemical Sensing of Formaldehyde Nitin Dwivedi, R.K. Shukla  SN Applied Sciences (2020)2:262  <http://doi.org/10.1007/s42452-020-2055-2> Corresponding Author | |
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