

**RESEARCH PUBLICATION**

**DEPARTMENT OF APPLIED CHEMISTRY**

**DR. SHWETA CHOUBEY**

**PAPER PUBLISHED IN INTERNATIONAL / NATIONAL JOURNALS - 13**

1. Biosorptive Removal of Ni(II) from Waste Water and Industrial Effluent Published on International Journal of Environmental Research and Public Health ISSN – 1661-7827, (2007) 4(4), 332-339.
2. Bisorptive Removal of Arsenic From Drinking Water, Published on International Journal of Biresouce Technology (2007).
3. Biosorptive removal of Cadmium from contaminated groundwater and industrial Effluents Published on BIORESOURCE TECHNOLOGY 99 (2008) 4420-4427 Science Direct Elsevier.
4. Role of communication in effective teaching in present scenario  
Published on International Research Journal Lab to Land ISSN No. 0975-282X, (2012), Vol.4 (15), 455-459.
5. Valuable Black gold as a result of utilization of municipal solid waste  
Published an International journal of Recent Reseach of Science and Technology ISSN No. 2076-5061, 0975-2014, Vol.6 (1), 241-244.
6. Mineral-Water Interfacial Reactions and Their Effect on Elemental Mobilisation  
Published on Asian Journal of Water, Environment and Pollution, Vol. 13, No. 1 (2016), pp.49–58.DOI 10.3233/AJW-160007
7. Testing and Analysis of Pond Water in Raipur City, Chhattisgarh, India  
Published an International Journal of Science and Research (IJSR)  
ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14 | Impact Factor (2015): 6.391
8. Analysis of Physiochemical parameters for Water Quality: A review  
International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14 | Impact Factor (2015): 6.391
9. A short review on “Utilizing Sugarcane bagasse (SCB) –Chhattisgarh (India) prospect”  
Published on International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 03 Issue: 08 | Aug-2016 www.irjet.net p-ISSN: 2395-0072
10. Defluoridation of Water by Various Technique- A Review  
Published on International Journal of Innovative Research in Science, Engineering and Technology (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 7, July 2016 ISSN (Online): 2319-8753, ISSN (Print) : 2347-6710
11. Nanoscience and Nanotechnology: The Present and Future Aspects.

Published on National Journal of Vasundhara – The Earth ISSN No.– 0973- 595, vol. 3 (1) Jan (2009), 31-39.

12. **Biosorptive Removal of Iron from Mining and Industrial Effluents**

Published on national Journal of Vasundhara – The Earth ISSN No.– 0973-595, vol. 3 (1) Jan (2009), 4-9.

13. **Removal of Arsenic from Waste Water Using Biosorption - A Review**

Published on A national research journal of science, Engineering, Technology and Policy with special reference to Environment Vasundhara: The Earth ISSN No. 0973-595X, vol. 4 June (2012), 70-84.

**BOOK/MONOGRAPH PUBLISHED =03**

1. **“A Text book of Environment and Ecology”** Published under Dhanpat Rai & Co Pvt (Ltd) New Delhi, India ISBN No. 978-81-7700-025-2.
2. **Biosorption –An Eco Friendly Technique for the Removal of Heavy Metals”** Under LAMBERT Academic Publishing ist ein Imprint der/ is a trade mark of OmniScriptum GmbH & CO.KG, Verlag, Germany ISBN 978-3-659-52627-5
3. **Applied Chemistry** under Jainam Publication Bhilai, Chhatisgarh India (As per C.S.V.T.U. Syllabus) (Question Answer pattern Bank)

**PAPERS PUBLISHED IN INTERNATIONAL AND NATIONAL CONFERENCES / SEMINARS**

**International Conference / National Conference and Seminar = 36**

1. **Biosorptive removal of Cadmium from contaminated groundwater and industrial Effluents,** Proceedings International Conference on Ground water for sustainable Development (IGC-2006), Royal Institute of Technology Sweden and Jawaharlal Nehru University, 1–4<sup>th</sup> Feb., 2006, New Delhi (Full length, under publication as book, abstract enclosed).
2. **Bioremoval of Ni(II) From Waste Water And Industrial Effluent By Adsorption Technique Using Plant Biomass**  
paper presented in 47th Annual Convention of Chemist-2010 and International Conference on Recent Advances in Chemical Sciences organized by Indian Chemical Society and Co sponsored by DST, CSIR, and UGC at Pt. Ravi Shankar Shukla University Raipur on 23<sup>rd</sup> -27<sup>th</sup> December 2010.

**3. Conversion of Mechanically segregated Municipal Solid Waste into Organic Fertilizer – A review**

Paper presented and published in proceeding in an International conference Transilience 2012 held on 21<sup>st</sup> -23<sup>rd</sup> June 2012 at SSITM Bhilai C.G.

**4. Conversion of Energy Through Reclamation Of Waste Lubricating Oils Generated at Various units of Bhilai Steel Plant.**

Paper presented and published in proceeding in an International conference Transilience 2012 held on 21<sup>st</sup> -23<sup>rd</sup> June 2012 at SSITM Bhilai C.G.

**5. Role of communication in effective teaching in present scenario**

Paper presented and published in an international seminar on Dynamics of 21st Century Communication, Organised by Department of education Swami Shri Swaroopanand Saraswati Mahavidyalaya, sponsored by Public Relation Department of Chhattisgarh Govt. During 19-20th December 2012.

**6. Valuable Black gold as a result of utilization of municipal solid waste**

Published and presented in an International Conference on Emerging Challenges and Issues in Environmental Protection sponsored by Chhattisgarh Council of Science and Technology (CGCOST) organised by Department of Chemistry and Biotechnology Raipur Institute of Technology Raipur, held on 23th -24th January 2014.

**7. Hazardous Chemical Present in Batteries and their Impact on Environment and Human**

Published and presented in an International Conference on Advanced Research Applications in Engineering and Technology Organised by Rungta Group of Institutions Bhilai-Raipur, held on 23th -24th March 2014.

**8. Characteristics, Chemistry and recirculation of landfill Leachate: A Review**

Published and presented in an International Conference on Advanced in Chemical Engineering Organised by Department of Chemical Engineering National Institute of Technology Raipur, CG. held on 5th -6th April 2013.

**9. Biomedical Waste Management in Hospitals – An Emerging Issue**

Published and presented in an International Conference on Status of science & Technology in Chhattisgarh State Organised by Bhilai Institute of Technology Durg C.G. Sponsored by CGCOST, Raipur C.G.

**10. Adsorbents as low cost alternative for the removal of Ni(II) and Cr(VI) from aqueous solution –a review**

Published and presented in an International Conference on Recent Trends in Science and Engineering Organised by Department of Chemistry and Physics by Govt. V.Y.T. PG. Autonomous College Durg CG. held on 15th -16th January 2016.

**11. Study of water quality by the assessment of Physicochemical Parameters of Kabir Nagar Raipur, Chhattisgarh.**

Published and presented in an International Conference on Recent Trends in Science and Engineering Organised by Department of Chemistry and Physics by Govt. V.Y.T. PG. Autonomous College Durg CG. held on 15th -16th January 2016.

**12. Separation of Ni(II) and Cr(VI) from the binary Mixture Aqueous Solution by Column Sorption Technique Using Biosorption**

**Presented on** 1<sup>st</sup> ASIAN conference on "Water and Land Management for Food and Livelihood Security", organised by Indira Gandhi Krishi Vishwavidyalaya Raipur C.G and Soil Conservation Society of India New Delhi India held on 20-22th January 2017 at Indira Gandhi Krishi Vishwavidyalaya Raipur C.G.

**13. Maintaining Ecological Balance for a Clean and Green Chhattisgarh,** National Seminar on Environmental Pollution, Bhilai Institute of Technology, Durg, CG. 7<sup>th</sup> October 2004,

**14. Newly developed adsorbent for Arsenic removal from Drinking Water** A National Conference BITCON held at Bhilai Institute of Technology Durg from 16<sup>th</sup> to 17<sup>th</sup> March 2007.

**15. Biosorptive Technique for Iron removal From Industrial Effluents and Ground Water: - A National Conference BITCON** held at Bhilai Institute of Technology Durg from 16<sup>th</sup> to 17<sup>th</sup> March 2007.

**16. Biosorption Technology: Past and Present Aspects for Removal of Toxic Metal: - A National Conference BITCON** held at Bhilai Institute of Technology Durg from 16<sup>th</sup> to 17<sup>th</sup> March 2007.

**17. Adsorption studies on a novel plant biomass – Removal and recovery of Ni (II) from Waste Water: - A National level Technical Conference TECHNOVISION** held at Shri Shankaracharya College of Engineering and Technology Bhilai from 26<sup>th</sup> to 27<sup>th</sup> October 2007.

**18. Nanoscience and Nanotechnology: The Present and Future Aspects.**

A National level Technical Conference **TECHNOVISION** held at Shri Shankaracharya College of Engineering and Technology Bhilai from 26<sup>th</sup> to 27<sup>th</sup> October 2007

**19. Arsenic Removal From water/Wastewater using Adsorbents – A Critical Review: - National conference on Modern Trends in Environmental Science & Engineering** Organized by Department of Engineering Chemistry & Centre for Environmental Science & Engineering Bhilai Institute of Technology Durg, held on 7<sup>th</sup> -8<sup>th</sup> November 2008.

**20. A Study of Ground Water Contamination and the Attenuation Method Of Various Contamination: - National conference on Modern Trends in Environmental Science &**

Engineering Organized by Department of Engineering Chemistry & Centre for Environmental Science & Engineering, Bhilai Institute of Technology Durg, held on 7<sup>th</sup> - 8<sup>th</sup> November 2008.

21. **Nanotechnology and Biomedical Sciences: Review of Current Concepts on Convergence of Nanotechnology with Biology:** - National Seminar on Advances in Environmental Science & Engineering Sponsored by AICTE during 8<sup>th</sup> -9<sup>th</sup> January 2009 at B.I.T. Durg.
22. **Biosorption : an Eco friendly Alternative for heavy metal removal** -A National seminar on “Environmental Science and its Application towards water Treatment”. Sponsored by All India Council for Technical Education, New Delhi, 15<sup>th</sup> -16<sup>th</sup> July 2010 at Department of Applied Chemistry and Centre for Environmental Science and Engineering, BIT, Durg
23. **Climate change and its effects on biodiversity** -UGC Sponsored National conference on Climate Change and its Effects on biodiversity organized by Department of Biotechnology & Microbiology Bhilai Mahila Mahavidyalaya, Bhilai on 5-6<sup>th</sup> February 2011.
24. **Removal of Arsenic from Wastewater Using Biosorbent –A Review.**  
UGC Sponsored National Seminar on “Effects of Pollution on Global Health” on 11<sup>th</sup> -12<sup>th</sup> November 2011 organised by Department of Chemistry, Shri Shankaracharya Mahavidyalaya Sector 6, Bhilai C.G.
25. **Role of E Waste Management for Integrated Development of Towns as Growth Centre**  
27<sup>th</sup> National Convention of Civil Engineering & National Seminar on Integrated Development of Towns as Growth Centres, 15<sup>th</sup> -16<sup>th</sup> October 2011, organized by The Institution of Engineers (INDIA) Chhattisgarh State Centre, Raipur.
26. **Solid waste Management in India**  
27<sup>th</sup> National Convention of Civil Engineering & National Seminar on Integrated Development of Towns as Growth Centres, 15<sup>th</sup> -16<sup>th</sup> October 2011, organized by The Institution of Engineers (INDIA) Chhattisgarh State Centre, Raipur.
27. **E waste- Its Impact on Environment and Recycling**  
UGC Sponsored National Seminar on “Effects of Pollution on Global Health” on 11-12<sup>th</sup> November 2011 organised by Department of Chemistry Shri Shankaracharya Mahavidyalaya Sector 6 Bhilai C.G.
28. **Minimization Of hazardous Waste by Different Technique and Their Management – An Overview.**

Presented in National Seminar on Recent Trends In Chemical Research: Challenges Ahead” organized by Department of Chemistry and Applied Chemistry held on 30<sup>th</sup> -31<sup>st</sup> March 2012 at Guru Ghansidas Vishwavidyalaya, Bilaspur, C.G.

**29. “Developing uses for Sugar-caneBagasse and its Ash, in Chhattisgarh, India”- A Review**

Arvind Kumar Swarnakar, Jai Kumar Sao, Dr. Shweta Choubey Publshind on proceedings and presented paper in a National Conference on Advances in Pollution Control and Remediation , organized by the Department of Applied Chemistry , Bhilai institutre of Technology Durg held on 20<sup>th</sup>-21<sup>th</sup> February 2015.

**30. Role of Aquifer Information System and Water Quality Index to Assess Ground Water Quality in and around Chhattisgarh Durg District**

**Dr. Shweta Choubey, Rakesh kumar Sharma** Publshind on proceedings and presented paper in a National Conference on Advances in Pollution Control and Remediation , organized by the Department of Applied Chemistry , Bhilai institutre of Technology Durg held on 20<sup>th</sup>-21<sup>th</sup> February 2015.

**31. A Study on the Effects of Source Seperated Municipal Solid Waste Compost on the Properties of Soil in Bhilai C.G. Shweta Choubey, Ajay Nath** Publshind on proceedings and presented paper in a National Conference on Degradation Pasrameters due to Rap[id Industrialization in Chhattisgarh State and its Impact on Human Health and Environmental Condition, Organized by the Department of P.G. Studies & Research in Chemistry, T.C.I. Govt. P.G. College janjgir C.G. Sponsored by University Grants Commission, Central Reigional Office Bhopal M.P. held on 18<sup>th</sup>-19<sup>th</sup> January 2016.

**32. Analysis of Physicochemical Parameters for water quality – a review. Dr. Shweta Choubey, Arvind Swarnakar, Rakesh Kumar Sharma** Publshind on proceedings and presented paper in a National Conference on Current Environmental Issues and Sustainable Development, Organized by the Department of Applied Chemistry, Bhilai institutre of Technology Durg held on 29<sup>th</sup>-30<sup>th</sup> January 2016.

**33. Report Based on Hazardous Chemical Present in Batteries and their Impact on Environment- A Literature Review** Presented under the theme of Clean and Green Technology All India Conference AICON, organized by the Department of Engineering Physics CSIT, Durg on 22-23 April 2016.

**34. “Green Techniques in Building Construction”**

Paper presented and published on A National Seminar on “Current status of Environmental Science in Chhattisgarh State” was organized by the Department of Chemistry Bhilai Mahila Mahavidyalaya, Bhilai, sponsored by Chhattisgarh Environment Conservation Board, Raipur, from 30<sup>th</sup> November to 1<sup>st</sup> December 2017.

### 35. Toxic Blanket photo Smog – Causes and Effects

Paper presented and published on A National Seminar on “Current status of Environmental Science in Chhattisgarh State” was organized by the Department of Chemistry Bhilai Mahila Mahavidyalaya, Bhilai, sponsored by Chhattisgarh Environment Conservation Board, Raipur, from 30th November to 1<sup>st</sup> December 2017.

### 36. Effect on Human Health due to Drinking Water Contaminated with Heavy Metals

A review Paper presented and published on a workshop on “Ground water Management and its issues in Chhattisgarh” Central Ground Water Board, North Central Chhattisgarh Resion Ministry of Water Resources, River Development & Ganga Rejuvenation, during 17<sup>th</sup> January 2018

### 37. Biosorption as Tool for Environmental Importance and Significance for Pollution Treatment

Paper published in a proceeding of a workshop on “Ground water Management and its issues in Chhattisgarh” Central Ground Water Board, North Central Chhattisgarh Resion Ministry of Water Resources, River Development & Ganga Rejuvenation, during 17<sup>th</sup> January 2018

## DR. VIKAS KUMAR JAIN

### List of Publications:

1. **V. K. Jain**, Chemiluminescence : A tool to determine the rate constant and order of chemical reaction, *Asian Journal of Research in Chemistry*, **6(5)** May 2013, Page 495-497. **ISSN No. 0974-4169**
2. **V. K. Jain**, Effect of Hydrazine on Chemiluminescence Intensity produced during reaction between Luminol and Hexacyanoferrate in alkaline medium, *International Journal of Luminescence and its Applications*, **3(II)** July 2013, Page 119-121. **ISSN No. 2277-6362**
3. **V. K. Jain and B. P. Chandra**, Effect of Solvent on the Intensity of Chemiluminescence produced during decomposition reaction between Luminol and Hydrogen peroxide, *International Journal of Luminescence and its Applications*, **3(II)** July 2013, Page 132-135. **ISSN No. 2277-6362**
4. **V. K. Jain**, Effect of catalyst on Luminol – Hydrogen peroxide – Water Chemiluminescence System, *Asian Journal of Pharm. Ana.*, **3(4)** Oct. – Dec. 2013, Page 138-141. **ISSN No.**

**2231-5667**

5. **V. K. Jain and B. P. Chandra**, Chemiluminescence produced during reaction between Luminol – hexacyanoferrate and VMA, *International Journal of Luminescence and its Applications*, **4(II)** April 2014, Page 95-97. **ISSN No. 2277-6362**
6. **S. Sharma, V. K. Jain and H. S. Kar**, Chemical Properties of Drinking Water in Bhilai, Dist – Durg, Chhattisgarh, India and its Impact on Human Health, *Research Journal of Science and Technology*, **6(2)** April – June 2014, Page 63-65. **ISSN No. 0975-4393**
7. **S. Sharma and V. K. Jain**, Acid Value of Various Domestic Uses Oil, *Research Journal of Science and Technology*, **7(2)** April – June 2015, Page 109-110. **ISSN No. 0975-4393**
8. **S. Ramteke, K. S. Patel, Y. Nayak, N. K. Jaiswal, V. K. Jain, L. Borgese, A. Gianoncelli and E. Bontempi**, Contamination of heavy metals and nutrients in sediment, sludge and sewage of India, *International Journal of Geosciences*, **6** November 2015, Page 1179-1192. **ISSN No. 2156-8367**
9. Detection of resistance pattern, extended-spectrum Beta-lactamase producing clinical isolates *Escherichia coli* and *Klebsiella pneumoniae*, *International Journal of Applied Research*, **2(1)** 2016, Page 523-525. **ISSN No. 2394-7500**
10. **S. Jain, V. K. Jain, S. K. Kashyap and S. Kumar**, Academic performance evaluator over the cluster  $L_2$ -metric, *Research Journal of Engineering and Technology*, **8(1)** January-March 2017, Page 01-03. **ISSN No. 0976-2973**
11. **S. Jain, V. K. Jain, S. K. Kashyap and S. Kumar**, Academic Data Modeling based on Fuzzy based Genetic Algorithm, *Research Journal of Engineering and Technology*, **8(2)** April-June 2017, Page 61-62. **ISSN No. 0976-2973**
12. **S. Jain, V. K. Jain and S. K. Kashyap**, New academic prediction system based on compact soft computing, *Institute of Integrative Omics and Applied Biotechnology Journal (IIOAB)*, **8(2)** March 2017, Page 136-140. **ISSN No. 0976-3104**
13. **S. K. Kashyap, V. K. Jain, S. Jain and A. Pandey**, Cancer Cell Controller, *Journal of Experimental and Therapeutics Oncology (JETO)*, **12(2)** 2017, Page 141-142. **ISSN No. 1359-4117**
14. **A. Pandey, V. K. Jain, D. Singh and S. K. Kashyap**, Fuzzy-Word Based Cryptosystem,



- International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, **4(2)** 2017, Page 406-412. **ISSN No. 2456-3307**
15. S. Jain, V. K. Jain, S. Kumar and S. K. Kashyap, Data Mining Formulation over Genetic Algorithm, *International Journal of Advance Research in Science and Engineering (IJARSE)*, **6(2)** 2017. **ISSN No. 2319-8346**
  16. V. K. Jain, N. K. Jaiswal and B. Ambade, Arsenic speciation in village grown rice grains from ambagarh chowki, India : Spatial distribution and prospective health hazard, *International Journal of Advances in Science Engineering and Technology*, **5(4)** November 2017, Page 4-6. **ISSN No. 2321-9009**
  17. S. K. Kashyap, B. K. Sharma, A. Banerjee, A. K. Tiwari and V. K. Jain, Cancer Medicine : A direction, *Journal of Experimental and Therapeutics Oncology (JETO)*, **12(3)** 2017, Page 247-248. **ISSN No. 1359-4117**
  18. S. A. Siddiqui, V. K. Jain, S. D. Diwan and A. K. Upadhyay, Theoretical approach of Luminol Hydrogen-peroxide Chemiluminescence reaction, *International Journal of Industrial Electronics and Electrical Engineering*, **5 (11)** November 2017, Page 106-109. **ISSN No. 2347-6982**
  19. S. Tripathi, M. K. Mishra, V. K. Jain, R. Tiwari and N. Dubey, Thermo, Photo and Mechanoluminescence studies of  $\text{Eu}^{3+}$  doped  $\text{Y}_4\text{Al}_2\text{O}_9$  phosphors : TL, PL and ML analysis of  $\text{YAM:Eu}^{3+}$ , *Emerging synthesis techniques for Luminescent Materials*, IGI Global Publication, USA, May 2018. (Book Chapter) **EISBN No. 9781522551713**

#### Conferences / Workshop Attended & Presented:

1. National Seminar on Luminescence and its Applications (NSLA-2003), 12-14<sup>th</sup> Feb.2003, Organized by Luminescence Society of India at National Physical Laboratory & Delhi University, New Delhi.
2. International Conference on Luminescence and its Applications (ICLA-2004), 9-12<sup>th</sup> February 2004, Organized by Luminescence Society of India at Bhabha Atomic Research Center (BARC), Mumbai (M.S.).
3. National Conference on Luminescence and its Applications (NCLA-2005), 2-4<sup>th</sup> February 2005, Organized by Luminescence Society of India at Bangalore University, Bangalore.
4. 3<sup>rd</sup> Chhattisgarh Young Scientist Congress, 28 February – 01 March 2005, Organized by Pt. Ravishankar Shukla University, Raipur (C.G.).
5. National Conference on Luminescence and its Applications (NCLA-2006), 7-9<sup>th</sup> February

- 2006, Organized by Luminescence Society of India at Sant Gadge Baba Amravati University, Amravati (M.S.).
6. 4<sup>th</sup> Chhattisgarh Young Scientist Congress, 28 February – 01 March 2006, Organized by Indira Gandhi Agricultural University, Raipur (C.G.).
  7. National Conference on Luminescence and its Applications (NCLA-2011), 7-9<sup>th</sup> February 2011, Organized by Luminescence Society of India at Pt. Ravishankar Shukla University, Raipur (C.G.).
  8. International Symposium on Environmental Analysis & Toxicological Issues of Speciation in Atmospheric Organic Aerosols, 6<sup>th</sup> – 7<sup>th</sup> December 2012, Organized by School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (C.G.).
  9. National Conference on Recent Trends in Chemical Sciences, 23<sup>rd</sup> – 25<sup>th</sup> January 2014, Organized by School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (C.G.).
  10. National Conference on Luminescence and its Applications (NCLA-2014), 5<sup>th</sup> – 7<sup>th</sup> February 2014, Organized by Luminescence Society of India at Department of Post Graduate Studies and Research in Physics and Electronics, Rani Durgavati Vishwavidyalaya, Jabalpur (M.P.).
  11. National Workshop on Operation and Maintenance of Laboratory Equipments, 19<sup>th</sup> – 23<sup>th</sup> January 2015, Jointly Organized by School of Studies in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur (C.G.) and Western Regional Instrumentation Centre, Mumbai.
  12. National Seminar on “Recent Trends in Materials Science”, 6<sup>th</sup> August 2015, Organized by Dr. Radhabai Govt. Naveen Kanya Mahavidyalaya, Raipur (C.G.).
  13. National Workshop on “Food, Pesticides and Consequent Health Hazards”, 8<sup>th</sup> August 2015, Organized by Dr. Radhabai Govt. Naveen Kanya Mahavidyalaya, Raipur (C.G.).
  14. National Seminar on “Advances in Environmental Science & Technology”, 23<sup>th</sup> – 24<sup>th</sup> January 2017, Organized by Department of Botany, Govt. Digvijay Autonomous P.G. College, Rajnandgaon (C.G.).
  15. National Conference on Recent advances in Chemical Analysis (RACA-2017), 14<sup>th</sup> December 2017, Organized by Department of Chemistry, National Institute of Technology, Raipur (C.G.).
  16. National Conference on Advances in Nanotechnology and their Applications (NCANA), 27<sup>th</sup> November 2017, Organized by GD-Rungta College of Engineering and Technology, Bhilai (C.G.).

**Refresher / Orientation Course / FDP / STTP Attended:**

1. Special Summer School equivalent to **Refresher Course**, 8<sup>th</sup> July 2013 to 28<sup>th</sup> July 2013, Organized by Academic Staff College, Pt. Ravishankar Shukla University, Raipur (C.G.).

2. **Orientation Program**, 26<sup>th</sup> August 2015 to 22<sup>nd</sup> September 2015, Organized by Human Resource & Development Centre, Pt. Ravishankar Shukla University, Raipur (C.G.).
3. **Faculty Development Program**, 10<sup>th</sup> December 2016, Organized by Government Engineering College, Jagdalpur (C.G.).
4. National Level **One Week Short Term Training Program** on Recent Trends in Material Science and Nanotechnology (MSNT-2017), 3<sup>rd</sup> – 7<sup>th</sup> October 2017, Organized by Department of Chemistry, National Institute of Technology, Raipur (C.G.).

**Book Published:**

1. 12<sup>th</sup> Chemistry Book, Prabodh Prakashan, Raipur (C.G.).

**ISBN No. 978-93-81516-38-6**

**Workshop Organised:**

1. Organized workshop on “Industrial and Waste Water Treatment” at Govt. Pt. Shyamacharan Shukla College, Dharsiwa (C.G.).

**Other details, if any:**

1. **1<sup>st</sup> Position in the order of merit** in M.Sc - Chemistry, 2002 **Examination of Pt. R.S.S. University.**
2. **Vice President of Student Union Council**, Pt. Ravishankar Shukla University, Raipur for the session 2001-2002. This nomination was purely on the **basis of merit.**
3. **Vice President of Chemical Society**, S.O.S. in Chemistry, Pt. Ravishankar Shukla University, Raipur for the session 2003-2004.
4. **President of Chemical Society**, S.O.S. in Chemistry, Pt. Ravishankar Shukla University, Raipur for the session 2004-2005.
5. Member of Luminescence Society of India (LSI).
6. Management Member of 10<sup>th</sup> & 11<sup>th</sup> Convocation committee of Pt. Ravishankar Shukla University, which was held in the presence of Honorable President **Dr. A.P.J. Abdul Kalam & Shri Atal Bihari Vajpai** as a chief guest respectively.
7. Management Member of 3<sup>rd</sup> Chhattisgarh Young Scientist Congress (CYSC) committee.
9. Contributed as Resource Person ; **Chhattisgarh EDUSAT Network** for conducting the Tele Lessons for improving educational standards in the Chhattisgarh state, Organized by State Council of Educational Research & Training (**SCERT**), Raipur (C.G.).

10. Contributed as Resource Person ; **Stress Management Workshop**, 23<sup>rd</sup> February 2014, Organized by Dainik Bhasker News Paper, Raipur (C.G.).
11. Contributed as Resource Person ; **Career Guidance & Coaching for Engineering and Medical Entrance Exam.**, Organized by Govt. Multipurpose School, Raipur (C.G.).
12. Contributed as Resource Person ; **Career Guidance & Coaching for Engineering and Medical Entrance Exam.**, Organized by Govt. Dani Girls School, Raipur (C.G.).
13. Contributed as Resource Person on Orientation Workshop and Display of Model by School Students, 6<sup>th</sup> October 2015, Organized by Chhattisgarh Science Centre, Raipur (C.G.).
14. Contributed as Resource Person on RUSA workshop ; **Preparation of NET Examination**, 9<sup>th</sup> March 2016, Organized by Rani Rashmi Devi Singh Govt. College, Khairagarh (C.G.).
15. Member of different committee like RUSA, UGC, IQAC, Anti-ragging, Career Guidance & Placement cell, etc. of the College.
16. Contributed as Resource Person on **Doordarshan Kendra Raipur for Vigyan Patrika program**, 17<sup>th</sup> November 2016.
17. Contributed as Resource Person on Lecture series, 18<sup>th</sup> November 2016, Organized by Govt. Pt. Shyamacharan Shukla College, Dharsiwa (C.G.).
18. Contributed as Subject Expert ; **Selection of Coaching institute for PRAYAS project of Chhattisgarh Government.**
19. Contributed as **Subject Expert in Interview Panel for Recruitment of Assistant Professor (On Contract) for Teqip Institutions** held in Department of Chemistry, NIT Raipur on 13/12/2017.

**Ms. SHASHIBALA KINDO**

#### **PAPER PUBLISHED IN INTERNATIONAL / NATIONAL JOURNALS**

1. Hydrolysis of di-3-chloro-2-methylaniline phosphate in buffer medium. *Acta Ciencia Indica*, 42, (1), 35-43, **2016**.
2. Kinetic study of hydrolysis of di-3-chloro-2-methylaniline phosphate in acid medium. *Int. J. Chem. Sci.*, 14(4), 2211-2222, **2016**.
3. Kinetic study of hydrolysis of mono-3,5-dimethylaniline phosphate in buffer medium. *Asian Journal of Chemistry*, 29 (5), 1045-1048, **2017**.
4. Study of Hydrolysis of Mono-3,5-Dimethylaniline Phosphate via Conjugate Acid Species, *Int. J. Chem Tech Res.*, 10(6), **2017**, Accepted.

#### **RESEARCH PAPER PRESENTED IN CONFERENCES-**

1. Kinetic solvent effect on the hydrolysis of mono-3-chloro-2-methylaniline phosphate. National Conference on Recent Trends in Chemical Sciences, Raipur, PP-65, 99, January 23-25, **2014**.

2. Effect of solvent and temperature on the hydrolysis of di-3-chloro-2-methyl aniline phosphate in acidic medium. 33<sup>rd</sup> Annual Conference Indian Council of Chemists, Dhanbad, PO-CYSA-06, 170, December 15-17, **2014**.
3. Kinetic study of hydrolysis of di-3-chloro-2-methylaniline phosphate ester in acid medium. 102<sup>nd</sup> Indian Science Congress, Mumbai, PP-02, 260, January 03-07, **2015**.
4. Hydrolysis of di-3-chloro-2-methyl aniline phosphate in presence of anionic surfactant, 17<sup>th</sup> National Conference on Surfactants, Emulsions & Biocolloids, Raipur (C.G), PP-35, 100, November 04-06, **2015**.
5. Effect of non-ionic surfactant on the hydrolysis of di-3-chloro-2-methylaniline phosphate, 52<sup>nd</sup> Annual Convention of Chemists and International Conference on Recent Advances in Chemical Sciences, Jaipur, PHY (AO)-02, B 1, December 28-30, **2015**.
6. Effect of anionic surfactant on the hydrolysis of mono-3, 5- dimethylaniline phosphate. 14<sup>th</sup> Chhattisgarh young Scientist Congress, Bilaspur University, Bilaspur (C.G.), CYSC-2016/CHE/015, 59, February 28<sup>th</sup>&29<sup>th</sup>, **2016**.
7. Acid catalyzed hydrolysis of mono-3,5-dimethylaniline phosphate, 53<sup>rd</sup> Annual Convention of Chemists (National Conference), Indian Chemical Society, Visakhapatnam, PHY (AP)-04, B 2, December 27-29, **2016**.
8. Hydrolysis of mono-3,5-dimethylaniline phosphate in presence of non-ionic surfactant, UGC-SAP DRS-II, National Conference on Advances in Environmental and Chemical Sciences, Raipur, Chhattisgarh, PP-06 , March 17-18, **2017**.

## **Dr RACHNA RASTOGI**

### **In International Journals**

#### **1. Epoxidation of olefins using (ACPHTRIEN) Cl/PhIO system.**

**R. Jain and R. Rastogi**

(Presented at XXVIII International Conference on Co-ordination Chemistry held at Jena, Germany, Aug. 13-18. 1990, Abstract Vol.-2).

#### **2. Oxidation of alkenes using RuCl<sub>3</sub>/PhIO system.**

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#### **3. A simple and sensitive Spectrophotometric method for the determination of iodine in environmental samples.**

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#### In National Journals

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7. Epoxidation of olefins using  $\text{O} = \text{V}^{\text{IV}}(\text{L})$ /70% TBHP system.  
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11. Determination of m-, p- and o- nitroanilines using spectrophotometric method and thermal gradient chromatographic methods.  
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J. Ind. Chem. Soc., 2002, 79, 633

**DR. SHAILESDHAR DIWAN**

**Papers Published in National /International Journals:**

1. J. K. Kim, R. P. Pathak, S. Dashputre, S. D. Diwan and Rajlaxmi Gupta, Demiclosedness principle and convergence theorems for lipschitzian type nonself mappings in CAT(0) spaces, Nonlinear Funct. Anal. & Appl., Vol. 23, No. 1(2018), pp. 73-95.
2. S. D. Diwan, A. Das and S. Dashputre, On Mann-type Implicit Iteration Method for a Family of  $\phi$ -demicontractive Mappings in Hilbert Spaces, Annals of Pure and Applied Mathematics, Vol. 16, No. 2, 2018, 443-450. DOI: <http://dx.doi.org/10.22457/apam.v16n2a22>
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5. P. Sharma and S. D. Diwan, Some common fixed point theorems in intuitionistic fuzzy metric spaces using the property (E. A), Global and stochastic analysis. Vol. 4(1) 2017, 23-34. Elsevier's SCOPUS indexed, UGC approved. ISSN 2248-9444.
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7. S. D. Diwan, A. K. Thakur and Hiral Raja (2016), Common fixed point theorems in metric spaces satisfying an implicit relation, Advances in Fixed Point Theory, 6(2016), No. 2, 167-174. ISSN: 1927-6303.
8. P. Sharma and S. D. Diwan, Some common fixed point theorems in fuzzy metric spaces for sequence of self mapping the property (E. A), Annals of pure and Applied Mathematics, 12(2) 2016, 177-184. Indexed in Mathematical review, Nasa. ISSN 2279-087X (P), 2279-0888(online).
9. P. Sharma and S. D. Diwan, Common Fixed Point Theorems for Two Pairs of Weakly Compatible Mappings in Fuzzy Metric Spaces using  $(CLR_{ST})$  Property, IOSR Journal of Mathematics, 12(6) 2016, 66-71. Indexed in Proquest, Mathematical review. e-ISSN: 2278-5728, p-ISSN: 2319-765X.



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11. P. Sharma and S. D. Diwan, Some Common Fixed Point Theorems in Fuzzy Metric Spaces using the  $CLR_g$  Property, JMAT(imanager's journal on mathematics), 5(2) 2016, 45-53. ISSN 2277-5129(P), 2277-5137(O).
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15. S. D. Diwan, A. K. Thakur and Hiral Raja (2016), Common Fixed Points of Four Mapping in Metric Spaces, International Journal of Science and Research (IJSR), Vol. 5, Iss. 5, May 2016, pp. 2089-2092.
16. R. P. Pathak, S. Dashputre, S. D. Diwan and Rajlaxmi Gupta, On Noor-type iteration schemes for multivalued mappings in CAT(0) spaces, Fixed Point Theory and Applications (Springer), 2015:133, (2015). DOI 10.1186/s13663-015-0380-8. ISSN 1687-1812
17. J. K. Kim, R. P. Pathak, S. Dashputre, S. D. Diwan and Rajlaxmi Gupta, Fixed Point Approximation of Generalized Nonexpansive Mappings in Hyperbolic Spaces, International Journal of Mathematics and Mathematical Sciences, Vol. 2015, Article ID 368204, 6 pages, (2015). <http://dx.doi.org/10.1155/2015/368204>. ISSN 1687-0425
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21. Hiral Raja, S. D. Diwan and A. K. Thakur (2015), Some Generalization on Fixed Point Theorems Related to Product of Fuzzy Metric Spaces, Published in International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Iss. 8, pp. 6817-6820.
22. S. D. Diwan, A. K. Thakur and Hiral Raja (2015), Some Generalization on Fixed Point Theorems Related to Product of 3-Fuzzy Metric Spaces, Published in International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Iss. 8, 2015, pp. 7571-7574.
23. Hiral Raja, S. D. Diwan and A. K. Thakur (2015), Fixed Point Theorems Related to Fuzzy-2 Metric Spaces, Published in International Journal of Advance Foundation and Research in Science and Engineering (IJAFRSE), Vol. 2, Issue 4, 2015, pp. 6-12.
24. R. P. Pathak, Rajlaxmi Gupta and S. D. Diwan, A Common Fixed Point Theorem For a Class of Non-compatible Mappings, Acta Cienica Indica, Vol. XLM, no. 3, 403-406, (2014). ISSN 0970-0455
25. S. D. Diwan and Rajlaxmi Gupta, A Common Fixed Point Theorem for Gregus Type Mappings, Thai Journal of Mathematics, Vol. 12 no. 1, 103-112, (2014). ISSN 1586-0209.
26. J. K. Kim, S. Dashputre and S. D. Diwan, Approximation of common fixed points of nonself asymptotically nonexpansive mappings, East Asian Mathematical Journal, Vol. 25(1), (2009), 179-196.
27. S. Dashputre and S. D. Diwan, On the convergence of Noor iteration process for Zamfirescu mapping in arbitrary Banach spaces, Nonlinear Functional Analysis and Applications, Vol. 14(1), (2009), 143-150.
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29. D. R. Sahu and S. D. Diwan,  $D^*_S$  compatibility and common fixed point, Int. J. Appl. Math. Anal. Appl., Vol 1, No. 2, (2006), 277-285.
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**DEPARTMENT OF APPLIED PHYSICS**

**List of Publications**

**Dr Awanish Kumar Upadhyay**

Associate Professor of Physics

Department of Applied Sciences

Government Engineering College, Raipur (CG)

**International and National Journals**

1. "Theoretical approach of LuminolHydrogenperoxideChemiluminescence reaction" S. A. Siddiqui, V. K. Jain, S. D. Diwan, A. K. Upadhyay; *International Journal of Industrial Electronics and Electrical Engineering*, ISSN: 2347-6982, 2349-204X Volume-5, Issue-11, Nov.-**2017**pp 106-109.
2. "Mechanoluminescence Properties of Ba Doped LiF Crystal Induced by Applying Varying Pressure" R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and A. K. Upadhyay; *International Journal of Luminescence and applications* Vol7 (2) July, **2017**, pages 386-392
3. "Synthesis and Luminescence Characterization of Eu Activated  $\text{Al}_2\text{O}_3$  Phosphor" R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and A. K. Upadhyay; *International Journal of Luminescence and applications* Vol7 (2) July, **2017**, pages 397-403
4. "Synthesis and lyoluminescence characterization of rare earth activated  $\text{K}_2\text{Ca}_2(\text{SO}_4)_3$  phosphors" A.K. Upadhyay, S.J. Dhoble, R K Rai, R.S. Kher; *International Journal of Luminescence and applications* Vol6 (1) February, **2016**, pages 49-51.
5. "Mechanoluminescence and Thermoluminescence studies on gamma irradiated sodium chloride single crystal anf microcrystalline powder doped with dysprosium" Manish Kalra,R. S. Kher, S. J. Dhoble, A. K. Upadhyay; *Indian Journal of Pure and Applied Physics* -Vol 52 Sept **2014**pp 597-603.
6. "Correlation between thermoluminescence and mechanoluminescence of c-ray-irradiated Dy-doped  $\text{BaB}_4\text{O}_7$  phosphors" G. C. Mishra, A. K. Upadhyay, S. K. Dwiwedi, S. J. Dhoble, R. S. Kher; *J Mater Sci* (**2012**) 47:2752–2756 DOI 10.1007/s10853-011-6102-7.
7. "Mechanoluminescence Characterization of gamma-irradiated  $(\text{KNa})\text{Br}:\text{Ce}^{3+}$  phosphor" P. M. Bhujbal, S. J. Dhobale, A. K. Upadhyay, R. S. Kher, *Journal of Luminescence* 132 (**2012**) 1468–1471.
8. "MechanoluminescenceThermoluminescence and Photoluminescence studies on  $\text{Al}_2\text{O}_3:\text{Tb}$  phosphors" R. K. Rai, A. K. Upadhyay, R. S. Kher and S. J. Dhoble; *Journal of Luminescence* 132 (**2012**) 210–214
9. "Device for mechanoluminescence excitation by applying gradually varying pressure on the sample" R K Rai, R S Kher, S A Khan, S J Dhoble, A K Upadhyay; *Indian Journal of Pure and Applied Physics* -Vol 50 July **2012**pp419-542.
10. "Synthesis and luminescence properties of rare earth doped gamma-ray-irradiated  $\text{GdCa}_4\text{O}(\text{BO}_3)_3$  phosphors" G. C. Mishra, A. K. Upadhyay, R. S. Kher, S. J. Dhoble; *J Mater Sci* DOI 10.1007/s10853-011-5870-4.
11. "Thermoluminescence and Mechnoluminescence of gamma-ray-irradiated $\text{SrB}_4\text{O}_7:\text{Dy}$  phosphors" G. C. Mishra, A. K. Upadhyay, S. J. Dhoble, R. S. Kher;*Micro & Nano Letters*, **2011**, Vol. 6, Iss. 12, pp. 978–981 & doi:10.1049/mnl.2011.0441.

12. "Thermoluminescence and lyoluminescence in c-ray irradiated and  $\text{Ce}^{3+}$ -doped  $\text{YCa}_4\text{O}(\text{BO}_3)_3$  phosphors" G. C. Mishra, A. K. Upadhyay, R. S. Kher, S. J. Dhoble; *J Mater Sci* (2011) 46:7275–7278 DOI 10.1007/s10853-011-5687-1.
13. "Mechanoluminescence properties of gamma-ray-irradiated  $\text{BaSO}_4\text{:Eu}$  phosphors" A. K. Upadhyay, S. J. Dhoble, R. S. Kher; *Luminescence: The Journal of Biological and Chemical Luminescence* 2011; 26: 471–476
14. "Effect of deformation on the thermoluminescence of  $\text{BaSO}_4\text{:Tb}$  phosphors" A K Upadhyay, VikasGulhare, S J Dhoble, R S Kher; *Indian Journal of Pure and Applied Physics* -Vol 49 June 2011 pp. 382-384.
15. "Lyoluminescence and mechanoluminescence of Cu activated  $\text{LiKSO}_4$  phosphors for radiation dosimetry" N.S. Dhoble, S.P. Pupalwar, S.J. Dhoble, A.K. Upadhyay, R.S. Kher; *Radiation Measurements* 2011 vol 46(12) pp 1890-1893.
16. " $\text{BaAl}_2\text{O}_4\text{:Eu}$  Phosphor for mechanoluminescencedosimetry" R.K. Rai, A.K. Upadhyay, R.S. Kher, S.J. Dhoble, M. Mehta; *Radiation Measurements* 2011 vol 46(12) pp 1393-1396.
17. "Luminescence characterization of gamma-ray-irradiated rare-earth doped  $\text{BaSO}_4$  and  $\text{MgSO}_4$  phosphors" **R.S. Kher, A.K. Upadhyay, S.K. Gupta, S.J. Dhoble, M.S.K. Khokhar**; *Radiation Measurements* 2011 vol 46(12) pp 1372-1375.
18. "Study of effect of mechanical deformation on thermoluminescence of gamma-ray irradiated Dy doped  $\text{MgSO}_4$  phosphors" [R. K. Rai](#), [S. J. Dhoble](#), [M. S. K. Khokhar](#)- *Radiation Measurements* 2011 vol 46(12) pp 1397-1401
19. "Impulsive excitation of mechanoluminescence in gamma-irradiated  $\text{CaSO}_4\text{:Eu}$  phosphors" R.S. Kher, S.J. Dhoble, R.K. Pandey, A.K. Upadhyay and M.S.K. Khokhar; *Radiation Effects & Defects in Solids: Incorporating Plasma Science & Plasma Technology*, 2010, DOI: 10.1080/10420150.2010.507674
20. "Luminescence studies on  $\text{MgSO}_4\text{:Dy}$  phosphors" R. S. Kher, A. K. Upadhyay, S. J. Dhoble, M. S. K. Khokhar; *Indian Journal of Pure and Applied Physics* -Vol 46 Sept 2008 pp 607-610.
21. "Luminescence studies on -irradiated Dy activated  $\text{KNaSO}_4$  phosphors" A.K. Upadhyay, S.J. Dhoble, R.S. Kher; *Indian J. of Phys.*, 82(11), 1467-1472 (2008).
22. "Synthesis of  $\text{KNaSO}_4\text{:Tb}^{3+}$  and  $\text{MgSO}_4\text{:Dy}^{3+}$  phosphors for lyoluminescencedosimetry" A. Upadhyay, S.J. Dhoble, R. Rai, R.S. Kher; *Nuclear Instruments and Methods in Physics Research B* 266 (2008) 25

## Mr. GANESH RAM BANJARE

### Papers Presented at National/International Conferences/Seminar:

1. Participated at "National Confrence in Luminescence & its Applications (NCLA) 2011" organised by SOS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
2. Participated at "National Seminar on Nanomaterials & its Applications (NSNA) 2013" organised by Govt. Science College, Chhindwada (M.P.)
3. Presented a paper in "International Conference on Luminescence & its Applications (ICLA) 2015" organised by PES University, Bangalore, Karnataka.

4. presented a paper in “International cum Workshop on Luminescence Materials & Its Applications (IWLMA) 2015” at M.S. University, Vadodara (Gujrat).

5. Poster Presentation in “National Conference on Luminescence & its Applications (NCLA) 2016” at RTM University, Nagpur (Maharashtra).

6. Poster Presentation in “National Conference on Signal Processing, Sustainable Energy Material & Astronomy & Astrophysics (NSSEMA) 2017” at Pt. Ravishankar Shukla University Raipur (C.G.) .

### **Mr. VEENIT KUMAR SHUKLA**

#### **Papers presentation at National Conferences/Seminar :-**

1. Participated at “National Conference on Advances in Physics NCAP – 2012” organized by Department of Physics, Govt. Nagarjun Post Graduate College of Science Raipur (C.G.).
2. Participated at “National Conference on Novel Materials and their Applications NCNMA – 2012” organized by Arts and Commerce Girls College, Devendra Nagar, Raipur (C.G.).
3. Poster Presentation in “National Conference on Signal Processing, Sustainable Energy Material and Astronomy & Astrophysics NSSEMA-2017” at Pt. Ravishankar Shukla University Raipur (C.G.).

### **DEPARTMENT OF HUMANITY**

### **ANIL MANJHI**

#### **PAPER PUBLISHED IN INTERNATIONAL / NATIONAL JOURNALS**

1. Manjhi, Anil, and Dr. Anoop Kumar Tiwari. “The Evolution of Characters from a Being Living a Life Centered in Self to a Philanthropically Social Being in The Grapes of Wrath of John Steinbeck.” *IJELLH (International Journal of English Language, Literature in Humanities)* , III, no. IV, June 2015, pp. 157–163. Online, ISSN 2321-7065.

2. Dimri , Jitendra, Tiwari, Anoop Kumar and Manjhi Anil. “The Element of Life and Creation as It Lurks in Doris Lessing’s The Golden Notebook.” *IJELLH (International Journal of English Language, Literature in Humanities)*, III, no. VIII, Oct. 2015, pp. 218–229. Online, ISSN 2321-7065.

3. Manjhi, Anil and Tiwari Anoop Kumar. "Psychoanalytical Perspective in John Steinbeck's of Mice and Men." *IOSR Journal Of Humanities And Social Science (IOSR - JHSS)* , vol. 22, no. 7, ser. 4, July 2017, pp. 18–21. 4, doi: 10.9790/0837-2207041821.

**PAPER PRESENTED IN INTERNATIONAL / NATIONAL CONFERENCES/ SEMINAR**

1. Manjhi, Anil (2017) "Feminist Psychology in The Thousand Faces of Night of Githa Hariharan," National Conference on SAARC Literature and Culture (MATSLIT2017), Mats University Raipur, Chhattisgarh, India, April 25-26<sup>th</sup>
2. Manjhi, Anil (2018) "Transgender: The Gender Disabled by Sexuality" Proceeding in the National Seminar on Gender Norms & Gender Equality, Centre for Women's Studies Pt.Ravishankar Shukla University Raipur, Chhattisgarh & Oxfam India, February 6 to 8<sup>th</sup>