



JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA
Department of Chemistry
Publication Details

Journal Publications :2025

1. Pritee, Shikha Sharma, Sanjeev Thakur, "Facile Green One-Pot Synthesis of Pyrimidine Based Hydroxy Azo-Polymer for Selective Adsorption of Cationic Dyes", *Chemistry Africa*, 1-14 (2025)
2. Roli Verma, Kirti Srivastava, R.S. Jagadish and Palak Sharma, "Synthesis and Characterization of Poly {(benzo [1,2d: 4,5d']-bisthiazole-2, 6 diyl)-1,4-cyclohexane}", *Macromol.Symosia*. 20,254,142,400,142 (2025)
3. Kirti Srivastavaa, Roli Verma, R. S. Jagadish, Yamini Pandey, Abhishek Kumar, "Investigations into the Adsorption Isotherm and Kinetics of Heavy Metal Removal Using Green Iron Oxide Nanoparticles", *Nanofabrication* (10),1-10 (2025)
4. Pandey, Y., Beniwal, P., Verma, A. *et al.*, "Incorporation of TiO₂ Immobilized Waste Based Fe-Clay Beads Exhibiting In-situ Hybrid Behaviour Towards Paraquat Degradation", *Earth Syst Environ* **9**, 695–713 (2025)

Journal Publications :2024

1. Pritee, Neeraj Dhariwal, Preety Yadav, Shikha Sharma*and Sanjeeve Thakur, "Enhanced Photocatalytic Degradation of Environmental Pollutants using Triphenylamine-based Polymer: Synthesis, Characterization and Mechanistic Insights", *Langmuir*, 40, 26007-26017, (2024)
2. B.P. Mahadevaswamy, S.M. Rumana,Farheen, V.L. Yashaswini, B.S. Madhukar , R. Kavya, M.A. Sangamesha, S. Krishnaveni, "Green luminescent Cs₄PbBr₆@PVDF polymer nanocomposite-based hybrid nanogenerator for self-powered photosensor", *Materials today chemistry*39(2024)102179 (2024)
3. V.L. Yashaswini, S.M. Rumana Farheen, B.P. Mahadevaswamy, B.S. Madhukar, M.A. Sanga mesha , S. Krishnaveni, "Synergistic effects of rGO functionalization in nanocomposite-based triboelectric nanogenerators for enhanced energy harvesting",*Sensors and Actuators: A. Physical* 370 (2024) 115200 (2024)
4. Manisha, Jagadish R. S*, Roli Verma, P. Parameshwara & Baldev Raj, "Structure property relations in chitosan based nanocomposite films using WAXS techniques", *Indian Journal of Chemical Technology* Vol. 31, pp. 248-256 (2024)
5. Yamini Pandey, Kirti Srivastava, Roli Verma, "Advancing Corrosion Protection: Harnessing Nanotechnology for Next-Generation Inhibitor Systems" Source Title: Innovations in Nanomaterials-Based Corrosion Inhibitors, ch011, Pages: 32
ISBN13: 9798369330883|ISBN1,Softcover: 9798369349809|EISBN13: 9798369330890
6. Microwave-Assisted Synthesis of Monohydroxy Pendant Polybenzobisthiazole Thermoplastic Polymer Roli Verma, Kirti Srivastava, and R. S. Jagadish Springer *Proceedings in Materials* 51, <https://doi.org/10.1007/978-981-97-5169-3> (Chapter 21), Sunita Rattan et al. (Eds): *Emerging Trends in Synthesis and Catalysis in Chemistry*

7. Roli Verma, Dhiraj Dutta, Rama Dubey, "Plant Fiber-Based Bio-Hybrid Composites: Green Technologies for a Sustainable Environment," Sustainable Environmental Engineering, 153-193, Apple Academic Press (2024)

Journal Publications :2023

1. Roli Verma*, Kirti Srivastava, R.S.Jagadish, Rama Dubey, "Synthesis and Characterization of Pseudo Ladder Mono Hydroxy Pendant PolyBenzobisthiazole Aromatic Hetero-Cyclic Thermoplastic Polymer" RASĀYAN Journal of Chemistry, i.e. Vol. 16, No.2, 2023 issue.
2. Ashima Srivastava, Pratibha Singh ,Preeti Jain, Kirti Srivastava and Sanjeev Jain, "Nanomaterials in the Lubricant Industry" Emerging Nanomaterials and Their Impact on Society in the 21st Century Materials Research Forum LLC Materials Research Foundations 135 (2023) ,Chapter 2,23-39
3. Roli Verma, Kirti Srivastava, RS Jagadish, "Microwave-Assisted Synthesis of Monohydroxy Pendant Polybenzobisthiazole Thermoplastic Polymer", International Symposium on Emerging Trends in Synthesis and Catalysis, 313-322,(2023) Springer Nature Singapore
4. Pratibha Singh, Ashima Srivastava, Ekta Bhatnagar, Sandhya Bidhuri, "Exploration of Various Issues Associated with Sustainable use of Sanitary Napkins ",Journal of Applied Science and Education, 2023, Vol. 03, Iss. 01, S. No. 005, pp. 1-8,ISSN (Online): 2583-1372
5. Ashima Srivastava , Pratibha Singh , Shaili Srivastava , Shyni Singh, "Reclamation and characterization of value-added products from pulp and paper mill effluent using microbial fuel cell", Materials Today: Proceedings,2023/3/9
6. Ashima Srivastava, Shyni Singh, Pratibha Singh, Shaili Srivastava, "Pulp and Papermill Effluent Treatment by Continuous Electrocoagulation", Journal of Applied Science and Education, 2023,Vol. 03,Iss. 01,S. No. 006, pp. 1-7 ISSN (Online): 2583-1372

Journal Publications :2022

1. Kirti Srivastava, Ashima Srivastava &Pratibha Singh, "Kinetic & Adsorption Isotherm Studies for the Removal of Heavy metals by Rhiuzoclonium Species", Research journal of pharmaceutical, Biological and Chemical sciences Vol.13(4),July-Aug 2022,pp56-63

Journal Publications :2021

1. Roli Verma , Pratibha Singh , Savitha H.S, Pratibha Singh, Ashima Srivastava and R.S.Jagadish,"Bioremediation of Distillery Wastewater by sequential anaerobic and aerobic treatment in pilot scale bioreactor",International Journal of Lakes and Rivers: ISSN 0973-4570 Volume 14, Number 1 (2021), pp. 33-42
2. K.Srivastava, A. Srivastava, P.Singh, V. Sharma, P.Singh , " Remediation of Distillery Waste water using Zero Valent iron Particles " ,Current Research in Green Sustainable Chemistry (Elsvier), Volume4, 2021
3. Ashima Srivastava, Kirti Srivastava, Pratibha Singh & Pratibha Singh, "Application of Continuous Electrocoagulation Process for Distillery Wastewater Treatment", Journal of Scientific & Industrial Research, Vol. 80, pp. 486-490, 2021

Journal Publications :2020

1. Ashima Srivastava, Pratibha Singh, Kirti Srivastava, Pratibha Singh, Divya Ghildyal, Nupoor Srivastava and Asha Upadhyay, Application Of Microbial Fuel Cell For Electricity Generation By Using Utilizing Different Wastewater, Poll Res. 39 (1) : 121-126 (2020)
2. Singh, P. , Srivastava, A. , Srivastava, N. , Sharma, V. , Ghildyal, D. , Upadhyay, A. and Singh, P., Utilization of Algal Consortium to Produce Biofuels and Byproducts For Reducing Pollution load, Pollution, 6(2): 353-366, Springer 2020, DOI: 10.22059/poll.2020.292916.714.
3. Pratibha Singh, Ashima Srivastava and Nupoor Srivastava, Optimization of Process Parameters for generating Power by Microbial fuel cell utilizing Distillery Wastewater, Vermicompost and Escherichia coli, Journal of Scientific & Industrial Research, 79, 736-739, 2020.
4. Nigam Ahuja, N. , Ansari A.A. , Rajput R. and Pratibha Singh, " Synthesis and Characterization of Zero Valent Iron Nanoparticles for Textile Wastewater Treatment, Pollution", Pollution, 6(4): 773-783, Autumn 2020 DOI: 10.22059/poll.2020.296735.740 Print ISSN: 2383-451X Online ISSN: 2383-4501
5. K. S. Siddegowda B. Mahesh N. A. Chamaraja B. Roopashree N. Kumara Swamy G. S. Nanjundaswamy, "Zinc Oxide Nanoparticles Supported on Multi-walled Carbon Nanotube Modified Electrode for Electrochemical Sensing of a Fluoroquinolone Drug", Electroanalysis Volume 32, Issue 10 October 2020, 2183-2192 <https://doi.org/10.1002/elan.202000010>
6. Nanjundaswamy G S Mahesh B, Channe Gowda D, Chamaraja N A & Gangadhar Angadi, "Examination of miscibility characteristics of the synthetic plastic-mimetic peptide with polyacrylamide: development of nonwoven mats by electrospinning", Polymer–Plastics Tecnology & Materials <https://doi.org/10.1080/25740881.2020.1811322>
7. Vivek sharma, Sandeep Gupta, Asha Upadhyay, Pratibha Singh, "**Concept of Algal Biorefinery: A step towards Energy Independence**" High Technology letters

Journal Publications :2019

1. Mahesh B, Kathyayani D, Nanjundaswamy G S, Gowda DC and Sridhar R, "Miscibility studies of plastic-mimetic polypeptide with Hydroxypropylmethylcellulose blends and generation of non-woven fabrics", Carbohydrate & Polymer Volume 212, (2019), Pages 129-141.
2. Naveen Awasthi, Atul Kumar, Urvashi Srivastava, **Kirti Srivastava** & Rajeev K. Shukla "Excess volume and surface tension of some flavoured binary alcohols at temperatures 298.15, 308.15 and 318.15 K", Physics and Chemistry of Liquid (Taylor & Francis) (ISSN:0031-9104) 1029-0451

Journal Publications :2018

1. Roli Verma, **Kirti Srivastava**, R.S.Jagadish " Repairing BioConcrete: A better Living.", Int J Pharma Bio Sci 2018 July ; 9(3): (B) 185-19
3. Pratibha Singh, Saurabh Yadav, Deepika Singh, Divya Ghildyal, "Evaluation and Performance Analysis of Car Driven By Solar Energy", International Journal of Engineering Research ISSN:2319-6890 (online), 2347-5013 (print) Volume No.7, Issue Special 4, pp:422-425
4. Pratibha Singh, Nupoor Srivastava, Pratibha Singh Treatment Of Distillery wastewater By Continuous Electrocoagulation Process, International Journal of Engineering Research ISSN:2319-6890 (online), 2347-5013 (print) Volume No.7, Issue Special 4, pp:413-418

5. Kunal Sharma, Pratibha Singh, "Evaluation and Analysis of the Projected Pathway of Global Warming Targets Matter, International Journal of Engineering Research ISSN:2319-6890 (online),2347-5013(print) Volume No.7, Issue Special 4,pp:409-412
6. Mahesh B, Nanjundaswamy G S, Gowda DC and Siddaramaiah, ""Synthesis and evaluation of interaction parameters of synthetic elastin-derived polypentapeptide with poly(vinylpyrrolidone) in solution and solid phase", Journal of Applied Polymer Science Volume 135, Issue 39, (2018), 46699. <https://doi.org/10.1002/app.46699>
7. Nanjundaswamy G S, Mahesh B, and Gowda DC, ""Elastin-based polymer; synthesis, characterization and examination of its miscibility characteristics with polyvinylalcohol and electrospinning of the miscible blends", Polymer International, Volume 67, Issue 11, (2018), Pages 1511-1522. <https://doi.org/10.1002/pi.5669>
8. Divya Guildyal, Roli Verma, Utpal Mishra, Pratibha Singh, "Utilization of Piezoelectric Material for Energy Harvesting", International Journal of Engineering Research, ISSN:2319-6890 (online),2347-5013(print) Volume No.7, Issue Special 4,364-365
9. PRATIBHA SINGH¹*, NOOPUR SRIVASTAVA² AND DIVYA GHILDYAL, "Optimization of process parameters for treatment of pulp and paper mill waste water with FeCl₃ and iron nanoparticles" Int J Pharma Bio Sci, Int J Pharma Bio Sci 2018 April ; 9(2): (B) 30-37

Journal Publications :2017

1. Pratibha Singh and, Noopur Srivastava, 2017, Analysis of various iron nanoparticles and compounds in pulp & paper mill waste water treatment, Int. Res. Adv, 4(2)24-28
2. Pratibha Singh, Noopur Srivastava and R.S.Jagadish , 2017, Toxicity Removal of Pulp and Paper Mill Effluent by Employing Chemicals, International Journal of Applied Science, 6(2)-62-69
3. R.S.Jagadish, Pratibha Singh, 2017 Analysis of Green Materials Efficiency for Sustainable Environment, International Journal of Innovative Research and technology, m 4:76-83
4. Kirti Srivasta, Ashima Srivastava, Pratibha Singh, Ecofriendly, 2017 Approach to Build Road by Using Waste Plastics, International Journal of Innovative Research and technology, 4:115-118
5. Pratibha Singh, Noopur Srivastava and R.S.Jagadish, 2017, Effects of Pulp and Paper Mill Effluents on Seedling Growth of Wheat (Triticum Aestivum), 4(4):146:148
6. Pratibha Singh, and Ashima Srivastava, 2017, Electricity generation by microbial fuel cell using pulp and paper mill wastewater, vermicompost and Escherichia coli, IJBT, 16:211-217
7. Pratibha Singh, and Ashima Srivastava , 2017, Generation of electricity by using nonmediated fuel cell by utilizing different types of waste water, JSIR, 76(8)512-514.
8. R.K. Shukla , Atul Kumar, Naveen Awasthi , Urvashi Srivastava , Kirti Srivastava, " Speed of sound and isentropic compressibility of benzonitrile, chlorobenzene, benzyl chloride and benzyl alcohol with benzene from various models at temperature range 298.15–313.15K" Arabian Journal of Chemistry (online Published)
9. Mahesh B, Nanjundaswamy G S, Gowda DC and Siddaramaiah, "Synthesis of elastin-based polymer and evaluation of its intermolecular interactions with hydroxypropyl methylcellulose", Journal of Applied Polymer Science, ISSN:2319-6890 (online), 2347-5013 (print) Volume No.7, Issue Special 4, pp:422-425
10. Mahesh B, Nanjundaswamy G S, Gowda DC and Siddaramaiah, ""Investigation on miscibility behaviors of elastin-like polypentapeptide blends with polyvinyl alcohol in aqueous and solid state" Journal of Applied Polymer Science

Journal Publications :2016

1. Atul Kumar^{1,2}, Urvashi Srivastava^{1,2}, Arun K. Singh³, Kirti Srivastava⁴ and Rajeev K. Shukla "Sound Velocity and Isentropic Compressibility of binary Liquid Systems from various Theoretical Models at Temperature range 293.15 to 313.15K" Canadian chemical Transaction, DOI:10.13179/canchemtrans.2016.04.02.0279

2. Pratibha Singh, Preeti Jain, Roli Verma, R.S. Jagadish, 2016 , “Characterization of lignin peroxidase from *Paecilomyces* species for decolorisation of pulp and paper mill effluent” *J of Scientific and industrial research*
3. Prashant Singh, Satyam Bansal, Pratibha Singh, Roli Verma and R. S. Jagadish, 2016, “Algal Biofuel: A Boon for Society in Future to Solve Energy Crisis” *Int. Res. Adv.* 2016, 3(1), 1-4
4. Satyam Bansal, Harsh Chaudhary, Prashant Singh, , Pratibha Singh, 2016, “Socioeconomic and environmental impact of electronic waste” *Int. Res. Adv.* 2016, 3(1), 9-12
5. NK Swamy, P Singh, IP Sarethy, 2016, Effect of Sequential Treatment of Paper Industry Wastewater using Aluminum Chloride and *Pseudomonas putida*, *Indian Journal of Advances in Chemical Science* S1 (2016) 226-229
6. NK Swamy, P Singh, IP Sarethy, 2016, A Two-step Reduction of Color and Phenols from Paper Industry Wastewater using Copper Sulfate and *Pseudomonas putida*, *Indian Journal of Advances in Chemical Science* S1 (2016) 217-220

Journal Publications :2015

1. Noopur Srivastava and Pratibha Singh, 2015,”Degradation of toxic pollutants from pulp and paper mill effluent”, *Discovery*, 40(183), pp, 221-227
2. Pratibha Singh, Ashima Srivastava and Avinash Singh, 2015,”Preparedness for emergency and capacity to responset”, *Discovery*, 38(174), pp, 59-64
3. Roli Verma, Ashima Srivastava, Pratibha Singh, and R.S.Jagadish, 2015“Strategies for synthesis and application of self repairing materials to increase durability of polymeric materials, *Int J Pharma Bio Sci*, 6(3):(B)857-868
4. Vivek Chaturvedi, and Pratibha Singh, 2015, “Compost Toilets” *ISST Journal of Applied Chemistry*, 6 (1), 39-42
5. S Yadav, Pratibha Singh, N. N. Janhavi, K Srivastava,”Green Cement: the Cheapest Carbon sequestration on planet”, *ISST Journal of Applied Chemistry* 6 (1), 43-45

Journal Publications : 2014

1. Pratibha Singh & Ashima Srivastava, Enzymatic colour removal of pulp & paper mill effluent by different fungal strains, *International J. Pharma. & Biosci.*, 5(3): (B) 773-783, 2014.
2. A.Srivastava, R.Verma, P. Singh, M. Gupta, A. Sharma and V. Grover Microbial Fuel Cell: Need of Clean Environment, *Research Journal of Environment and Life Science*. 7(4), 219-222, 2014.
3. P. Singh, A.Srivastava & R.Verma, Socio-Economic and Environmental Impact of Nanotechnology, *Res. J. Chemical and Environ. Sci.*, 2(3), 17-20, 2014.

Journal Publications : 2000-2013

1. N. Kumara Swamy1, **Pratibha Singh** and Indira P.Sarethy.2011 Precipitation of Phenols from Paper Industry Wastewater Using Ferric Chloride. *Ras. J. Chem.*Vol.4, No.2 (2011), 452-456
2. N. Kumara Swamy, **Pratibha Singh** and Indira P.Sarethy.2011 Aerobic and anaerobic treatment of paper mill waste water. *Res. Environ. Life Sci.*4 (4) 141-148 (2011)
3. **Singh, P** ; Srivastava A, Verma R, Janhavi N, Gupta,M, Singh, H and Kumara Swamy, N 2010”Removal of colour in distillery effluent (spent wash) by *Phanerochaete chrysosporium* and *Pseudomonas fluorescens*” *Res. Environ. Life Sci.*3(1) 17-20
4. Agarwal, R., Gupta, M., and **Singh, P.** 2010 “Removal of Melanoidins present in distillery effluent as a major colorant”: A review Paper *International J of Environmental Biology*31;521-528

5. Roli Verma, Ashima Srivastava, **Pratibha Singh** and N.N Janhavi. Self Healing in Polymers: A review- Published in (Proceedings. RTMD 2010.) ISBN No.93-80697-01-5 Pg No. 86-90 National Conferences on Recent Trends in Materials and Devices 20th-22nd May 2010 in Amity Engineering College, Amity University.
6. A.Srivastava, R.Verma, **P. Singh**, M. Gupta, A. Sharma and V. Grover · Microbial Fuel Cell: Need of Clean Environment. All India Conference on Global Warming (Reducing Carbon foot prints and its impact on Global Warming), Rajasthan College of Engineering for Women (RCEW), Jaipur, 20-21 Aug.2010.
7. N. Kumara Swamy, **Pratibha Singh** and Indira P.Sarethy, Aerobic and Anaerobic Treatment of Paper Industry Wastewater All India Conference on Global Warming (Reducing Carbon foot prints and its impact on Global Warming), Rajasthan College of Engineering for Women (RCEW), Jaipur, 20-21 Aug.2010.
8. Setu Sharad Srivastava, Sudhanshu Singh, Mohd. Adnan Izhar, Indrajeet Singh, **Pratibha Singh**, and Ashima Srivastava, Formation of Building Blocks by Using Industrial Waste, All India Conference on The Renewable Energy sources: A Plausible solution to looming energy crisis, Setu Sharad Srivastava, Sudhanshu Singh, Mohd. Adnan Izhar, Indrajeet Singh, **Pratibha Singh**, and **Ashima Srivastava**, Rajasthan College of Engineering for Women (RCEW), 17-19 Sept 2010.
9. Singh, A and **Singh, P** 2008“Colour removal of distillery effluent by physical and chemical treatment and effect of distillery effluent on crops” in Jounal of Nature Conservators , Vol.20(1):63-71,
10. **Singh, P.**2007. Sequential anaerobic and aerobic treatment of pulp and paper mill effluent in pilot scale bioreactor. International J of Environmental Biology 3128(1);77-82
11. Singh, A.; Agarwal, S.B., Rai, J.P.N. and **Singh. P.** 2002. Assessment of the pulp and paper mill effluent on growth yield and nutrient quality of wheat (*Triticum aestivum* L.) Journal of Environmental biology 23 (3): pp 283-288.
12. **Singh, P.** and Thakur, I.S. 2004 Removal of colour and detoxification of pulp and paper mill effluent by microorganisms in two step bioreactor. *J of scientific and industrial research*.63:941-944
13. **Singh, P.** and Singh, A. 2004. Physiochemical characteristics of Distillery effluent and its chemical treatment Journal of Nature Science and Technology.3(2):pp 205-208
14. **Singh, P.** and Rai, J.P.N. 2004. Removal of colour in distillery effluent by chemical treatment. National Seminar on Ecology and Environmental Management: Issues and Research Needs. pp 151
15. **Singh, P.;** Upadhyaya, A. and Rai, J.P.N. 2004. Decolourization of distillery effluent by sequential chemical microbial treatment. National symposium of “Management of Aquatic Resources for Biodiversity Maintenance and Conservation” pp 134
16. **Singh, P.;** Uppadhyaya, A. and Rai, J.P.N. 2004. Removal of Heavy Metals from Brass Industry Effluent by Water Hyacinth (*Eichhornia crassipes*). National symposium of “Management of Aquatic Resources for Biodiversity Maintenance and Conservation” pp134
17. Srivastava, S., Purwar, S.; **Singh, P.** and Thakur, I.S. 2004. Bioprospecting: to conserve the environment. National symposium of “Management of Aquatic Resources for Biodiversity Maintenance and Conservation” pp 145
18. **Singh, P.;** Srivastava, S. and Thakur, I.S. 2004. Removal of colour in distillery effluent (spent wash) by microbial treatment. National symposium of “Management of Aquatic Resources for Biodiversity Maintenance and Conservation” pp124
19. **Singh, P.** and Rai, J.P.N. 2004. Bioremediation of distillery effluent by microbial treatment National seminar on water and forest conservation “myths and realities”. pp89.
20. **Singh, P.;** Chuphal, Y.; Srivastava, S.; Hatwal, V.K.; Singh, A. and Thakur, I.S. 2003. Decolourization of colour and detoxification of pulp and paper mill effluent by microorganisms in two steps bioreactor. National Symposium on Biochemical Sciences. Health and Environmental Aspects. Pp.143.
21. Thakur, I.S., Chuphal, Y., **Singh, P** and Ahmad, A.H. 2003. Removal of colour and chlorinated compound of pulp and paper mill of effluent by microorganisms. “National symposium on environmental biotechnology and biodiversity conservation” pp 89.

22. Thakur, I.S., Chuphal, Y., **Singh, P** and Ahmad, A.H. 2003. Removal of colour and chlorinated compound of pulp and paper mill of effluent by microorganisms. "National symposium on environmental biotechnology and biodiversity conservation" pp 89.
23. I. Sharma, A. Saxena, P. Pardasani, R.T. Pardasani, Theoretical and synthetic approach to novel spiroheterocycles derived from isatin derivatives and L-Proline via 1,3-Dipolar Cycloaddition, *Heteroatom chem.*, 2003 14, 36.
24. A. Saxena, P. Pardasani, R.T. Pardasani , Stereoisomeric Synthesis of oxazolidione and fused pyrrolidine derivatives via azomethine ylides and their antimicrobial activity, *Indian J.Chem.*, 2003, 42, 412-415.
25. **Singh, P.** and Thakur, I.S. 2002. Aerobic and anaerobic treatment of pulp and paper mill effluent by microorganism in sequential bioreactor. III. Annual conference and National Symposium on future prospects of ethanopharmacology for the promotion of Animal health and production. pp 59.
26. **Singh, P.** and Thakur, I.S. 2002. Removal of colour and detoxification of pulp and paper mill effluent by microorganism in two steps bioreactor. 43rd annual conference of association of microbiologist in India, p 154.
27. A. Saxena, P. Pardasani, R.T. Pardasani, (rac-5-RS,7-RS,8-SR)-spiro{7-methoxycarbonyl-1-aza-3-thia-bicyclo{3.3.0}-octane-8,1-acenaphthylen}-2-one, *Acta Cryst.*, 2002, 58E, 1405.
28. A. Saxena, P. Pardasani, R.T. Pardasani , A Comprehensive approach to the photosynthesis of bioactive compoyundsby the reaction of oxazoilidine, thiazolidine and imidazolidine derivatives with Indol-2,3-diones, *Proc.Indian Acad.Sci.*, 2002, 114, 523.
29. A. Saxena, P. Pardasani, R.T. Pardasani , Synthesis and antibactrial activity of some fused and spiro imidazolidine derivatives, *Indian J.Heterocycl.Chem.*, 2000, 10, 129.
30. S. Kohli, A. Saxena, P. Pardasani, R.T. Pardasani, Synthesis and semiempirical calculations of Imidazolidine, Oxazolodine and thiazolidine derivatives of Acenaphthylene-1,2-dione, *Indian J.Chem.*, 2003, 42B, 3075.
31. RK Shukla, Atul Kumar, Urvashi Srivastava, **Kirti Srivastava** and VS Gangwar; 2012. Density, Refractive Index and Molar Refractivity of Binary Liquid Mixtures at 293.15°, 298.15°, 303.15°, 308.15°, and 313.15°K. *Arabian Journal of Chemistry* (2012): 10.1016/j.arabjc.2012.02.013 (Elsevier)
32. RK Shukla, **Kirti Srivastava**, Atul Kumar and Neetu Singh; 2007. A comparative study of PFP and BAB models in predicting the surface and transport properties of liquid ternary systems. *Journal of Solution Chemistry* **36** (2007): 1103–1116. USA
33. .RK Shukla, **Kirti Srivastava**, Sanjay Gupta and Shilpy Yadav; 2008. A comparative study of PFP and BAB models in predicting the excess thermo-acoustical and allied properties of liquid ternary mixtures at 298.15°K. *Journal of Molecular Liquids* **140** (2008): 25–32. Germany
34. RK Shukla, Atul Kumar and **Kirti Srivastava**; 2008. Density, Ultrasonic Velocity, Surface Tension, Excess Volume and Viscosity of Quaternary Fluid Solutions. *Journal of Molecular Liquids* **140** (2008): 117–122. Germany
35. JV Singh, Atul Kumar, **Kirti Srivastava**, K Mishra, A Pandey and GL Agrawal; 2004. Kinetics of oxidation of crotonaldehyde by tetra ethyl ammonium chloro chromate (TEACC). *Oxidation Communications* **27** (4): 849–853 (2004). Bulgaria
36. R.K.Shukla, V.K.Pundhir, V.S.Gangwar and **Kirti Srivastava**, "Thermo-acoustical and Allied Properties of Binary Liquid Systems", *J.Pure Appl. Ultrason.*, vol 35, pp 35-43, 2013.
37. RK Shukla, Naveen Awasthi, VS Gangwar, SK Singh and **Kirti Srivastava**; 2012. Surface tension of binary liquid mixtures at 298.15°, 303.15° and 313.15°K. In 'Proceedings of 1st International Science Congress–2011' *Research Journal of Recent Sciences*: **1** (ISC-2011): 224-231, 2012
38. RK Shukla, Atul Kumar, Kirti Srivastava and Shilpy Yadav; 2007. A comparative study of compressibility of ternary liquid systems from two liquid state models at 298.15°K. *Indian Journal of Pure & Applied Physics* **45**: 679–686. India

39. **Singh, P.**, Kumar, S., Singh, A. 2001. Land capability classification – A need for Uttaranchal. A seminar on reforms in the concept of development V-11.
40. Singh, A, Rai. J.P.N, Kumar, S., **Singh, P.** 2001. Water management strategies in Uttaranchal. A seminar on reforms in the concept of development III-12.
41. Synthesis and Characterisation of Poly (benzobisthiazole) derived from "Thiophene Dicarboxylic Acids" **Roli Saxena**, L.D.Kandpal & G.N.Mathur *Journal of Polymer Science Part A: Polymer Chemistry*. Volume 45, Number 26 2004 pp 4367- 4374
42. Synthesis and Characterisation of Poly (benzobisthiazole) derived from halogenated phthalic acid isophthalic acid" -Roli Saxena, L.D.Kandpal & G.N.Mathur *Journal of Polymer Science Part A: Polymer Chemistry*. Volume 40, Number 22, 2002, pp 3959- 3966
43. Synthesis and Characterisation of Polybenzobisthiazole with cyclohexyl moiety in the main chain"- **Roli Saxena**, & G.N.Mathur. "Recent Advances in Polymer and Composites" (Proceedings. MACRO-2000. Editors G.N.Mathur, L.D.Kandpal & A.K.Sen.) Pp54-58 2000 (Allied Publishers New Delhi).
44. Polybenzobisthiazole- critical issues in its performance and properties. - **Roli Saxena** and L.D.Kandpal " Polymides and other high temperature polymers (Proceedings of IInd International Symposium Editor K.L.Mittal) pp225-240.2003 (VSP Publishers Boston USA)
45. Baldev Raj, R.S.Jagadish, Srinivas P and Siddaramaiah Crosslinking of LDPE by diisocyanates for superior barrier properties *Journal of Applied Polymer Science*. 2005, 96:1193-1199.
46. R.S. Jagadish, Baldev Raj and M.R. Asha. Blending of low-density polyethylene with vanillin for improved barrier and aroma releasing properties in food packaging *Journal of Applied Polymer Science*. 2009, 113:3732-3741.
47. R.S. Jagadish, Baldev Raj and P. Srinivas. Chemical modification of polypropylene with diisocyanates for improved gas barrier and mechanical properties *Advances in Polymer Technology*. 2009, 28:233-245
48. R.S. Jagadish, P. Parameswara, R. Somashekar and Baldev Raj Effect of plasticizers in structure property relations in chitosan/polyethylene oxide blended films *Polymer International*. 2010, 59:931-936
49. R.S. Jagadish, N.K. Rastogi and Baldev Raj Moisture sorption characteristics of chitosan/polyethylene oxide blended films *Journal of Polymers and the Environment*. 2010, 18:266-276
50. R.S. Jagadish and Baldev Raj Properties and sorption studies of polyethylene oxide- starch blended films *Food Hydrocolloids* 25 (2011) 1572-1580
51. R.S. Jagadish, K.N. Divyasree, Prema Vishwanath, P. Srinivas and Baldev Raj Preparation of N-vanillyl chitosan and 4-hydroxybenzyl chitosan and their anisotropic-mechanical, optical, barrier, and antimicrobial properties *Carbohydrate Polymers* 87 (2012) pp. 110-116
52. R.S. Jagadish, Baldev Raj, P. Parameswara and R. Somashekar Characterization of Polyethylene oxide/Starch blended films using FTIR and WAXS technique Published on line 2012 DOI.10.1002/APP.37616 in *Journal of Applied Polymer Science*
53. Baldev Raj, Rajeshwar S Matche and R.S. Jagadish. Antimicrobial food packaging. Book Chapter Woodhead Publishing Limited, Cambridge, UK. 2012
54. R.S. Jagadish and Baldev Raj Moisture Sorption studies of PEO/Starch blended films for Food packaging applications *International Journal of Agriculture and Food Science Technology*, ISSN 2249-3050 Vol 4, No.9(2013) pp 923-932

- 55.** R.S.Jagadish & J.Gururajao Effect of silica nano-filler on properties of tetra functional epoxy system ISST Journal of Applied chemistry [IJAC] ISSN: 0976-7355 Dec 2013