

Dr. Ajeet Kumar Srivastava, Assistant Professor

Dr. Ajeet Kumar Srivastava, Assistant Professor		
Educational Qualification	M.Sc, M.Tech, Ph.D(Renewable Energy)	
Experience	Teaching	17 Years
	Industry	02 Years
	Research	22 Years
Area of Interest	Renewable Energy, Biofuels, Bioethanol	
Date of joining RVCE	21-06-2007	
Email ID	ajeeth@rvce.edu.in	



Project Guided:

Number of UG projects guided: 25

Number of PG projects guided: 16

Publications:

National Conference: 04

International Conference: 35

International Journal: 31

International Conference:

1. Participated and presented paper/poster, entitled Comparative studies of the conventional solvents on the recovery of oil from tomato seed wastes authored by A.V. Narayan, Pavithra R, Mayur M R, **Ajeet kumar Srivastava** in the *International , Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health*, jointly organized by CSIR-Indian, Institute of Petroleum, Dehradun and The Biotech Research Society, India at Dehradun, India during December 01-04, 2021.

International Journal:

1. R Siri, **Ajeet Kumar Srivastava**. A review on insect-based food waste valorization., International Research Journal of Modernization in Engineering Technology and Science. 05(08), 1681-1685: August 2023
2. Gayatri Jayendran Nair, Yashwi Sinha, **Ajeet Kumar Srivastava**, Narendra S Kumar and Lingayya Hiremath. A review on the molecular basis of stemness of mesenchymal stem cells., World Journal of Biology Pharmacy and Health Sciences, 2023, 15(02), 202–207: 21 August 2023.
3. Yashwi Sinha, Gayatri Jayendran Nair, **Ajeet Kumar Srivastava**, Narendra S Kumar and Lingayya Hiremath. A review on mesenchymal stem cell-based therapies for autoimmune disorders, World Journal of Biology Pharmacy and Health Sciences, 2023, 15(02), 170–175: 21 August 2023
4. **Ajeet Kumar Srivastava**, Lingayya Hiremath, Sura Narendra Kumar, A V Narayan. Bioconversion of Lignocellulosic Waste to Bioethanol as Alternative Fuel using various Microorganisms., International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET).11(10), 12836 - 12842: October 2022.
5. **Ajeet Kumar Srivastava** , Lingayya Hiremath , S. Narendra Kumar, A.V Narayan. Bioconversion of lignocellulosic biomass to ethanol using different microorganisms. Int. J. Adv. Res., 10(07), 885-893: July 2022.
6. **S Narendra Kumar**, Chetan D M, Lingayya Hiremath, Ajeet Kumar Srivastava, Muralidhara P L, Jyothsana R, Rithika Pravin Iyer, Ruchika Pravin Iyer. Molecular Docking studies of THC-HCA on Cancer Receptors., Research J. Pharm. and Tech. 15(7): July 2022.
7. Jayashree K. 1 *, Narendra Kumar S1, Arun Shettar 2 and **Ajeet Kumar Srivastava**1, An Eco-Friendly Green Approach Towards Synthesis Of Iron Oxide Nanoparticles From Vitex Leucoxydon And Their Pharmacological Evaluation, *World Journal Of Pharmacy and Pharmaceutical Sciences*, Volume 10, Issue 7, 1851-1868, 2021.
8. Akshatha.J, Dr.Narendra kumar.S , Shwetha.H, Dr.Lingayya Hiremath and **Ajeet kumar srivastava** . Isolation And Screening Of Alkaline Protease Producing Bacteria, *International Journal of Current Advanced Research* , Volume 9; Issue 05(C), 22218-22222, 2020
9. Lingayya Hiremath, Narendra Kumar S., Praveen Kumar Gupta, **Ajeet Kumar Srivastava**, Shreya Choudhary, Suresh R.andKeshamma E., Synthesis, Characterization of TiO₂ Doped Nanofibres and Investigation on their Antimicrobial Property, *J PureApplMicrobiol.*; 13(4): doi: 10.22207/JPAM.13.4.2019
10. Praveen Kumar Gupta, Himashankari.B, Anwesha Sinha, KandiArvind Reddy, Priyadharsini V, LingayyaHiremath, **Ajeet Kumar Srivastava**. Manuscript entitled on Caffeine: Benefits, Risks, And Effects-A Review. Accepted for the publication in Indian *Journal of Public Health Research and Development*. Manuscript Ref No. 1221/IJPHRD/2019
11. Narendra Kumar S , LingayyaHiremath, Praveen Kumar Gupta, **Ajeet Kumar Srivastava**, Akanksha Jain, Abhishek R Hegde, Hamsa L “Hyper Immune Response Against T-2 Mycotoxin in *Oryctolagus cuniculus*” ,*Research Journal of Pharmacy and Technology*, 12(1) , 2019.
12. S Narendra Kumar, **Ajeet Kumar Srivastava**, LingayyaHiremath, RithikaPravinIyer, Praveen Kumar Gupta,Jyothsana R, RuchikaPravinIyer Introduction to Hidden Markov Model and its Biological Applications.. International Journal of ChemTech Research. Vol.12 No.03, pp 227-232, 2019.
13. Narendra Kumar S , LingayyaHiremath, Praveen Kumar Gupta,,**Ajeet Kumar Srivastava**, AkankshaJain, Abhishek R Hegde, Hamsa L“Hyper Immune Response Against T-2 Mycotoxin in *Oryctolagus cuniculus*” , , *Research Journal of Pharmacy and Technology*, 12(1) , 2019.
14. Praveen Kumar Gupta,Priyanka V, LingayyaHiremath, S Narendra Kumar, **Ajeet Kumar Srivastava**,“Extraction of Phytochemicals from *Eucalyptus Spp.* &*WithaniaSomnifera*and Their

Biological Testing, American Journal of Microbiological Research. Vol. 6, No. 4, 115-123. DOI:10.12691/ajmr-6-4-1, **2018**.

15. Lingayya Hiremath, Praveen Kumar Gupta, Narendra Kumar S, **Ajeet Kumar Srivastava**, Narayan A V, Sindhu Rajendran, Ravi K M, Mahadevi Narasanagi and Sukanya P, ***“Functionalized Cellulose Nanofiber –Composite Membranes for Waste water Treatment -a Review”*** , , Journal of Nanotechnology and Materials Science. Vol 5:1 pp35/43, **2018**
16. Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, **Ajeet Kumar Srivastava**, V Shashi Kumar, ***“Trend in future bioenergy- a review”***, Journal of Pharmacy Research , Vol 12 , Issue 2, **2018**
17. Lingayya Hiremath, Narendra Kumar S, Praveen Kumar Gupta, **Ajeet Kumar Srivastava** , N S Keerthi, P Sukanya ***“Evaluation of Fungal Antagonists for Controlling Sugarcane (Var. CoC. 671) Red-rot Disease”***, Journal of Pharmacy Research , Vol 12 , Issue 1, **2018**
18. **Ajeet Kumar Srivastava**, and A.V.Narayan ***“Comparative studies on recovery of carotenoid from tomato wastes using conventional and green solvents”***, , International conference on food processing and agribusiness “emerging trends” ICFPA1807PO140, accepted for publication, **2018**
19. Ajeet Kumar Srivastava, A V Narayan, Praveen Kumar Gupta, Lingayya Hiremath, Narendra Kumar S. Green liquor pretreatment for the enhancement of enzymatic saccharification of rice husk for ethanol production , 5(10),139-143, 2017.
20. Ajeet Kumar Srivastava , Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, Aishwarya Bhat, yashaswini R Bhat and Srujana S Ramaswamy . Concentration of lead and cadmium in common vegetables consumed Bangalore and the health effects, International journal of advanced research , 5(9),979-982, 2017.
21. Ajeet Kumar Srivastava , Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar , , Navyashri Shankar Narayan, Vidyashree S, Simran A Singh. Nanotechnology Based Sustained Action Drug Delivery System - A Review, manuscript accepted in European Journal of Biotechnology and Bioscience, 5(4), 60-67, 2017.
22. Ajeet Kumar Srivastava, A V Narayan, Praveen Kumar Gupta, Lingayya Hiremath,, Narendra Kumar S. Solvent-based Delignification of Rice straw for Efficient Enzymatic Hydrolysis of Cellulose and Bioethanol Production. International Journal of Innovative Research in Science, Engineering and Technology. Vol. 6, Issue 8, 2017.
23. ***“Industrial purification strategies for monoclonal antibodies”***, Narendra Kumar S, Lingayya Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava, Poornima S, Research journal of pharmacy and technology, 10(10),1827-1832, 2017, DOI : 10.5958/0974-360X
24. Ajeet Kumar Srivastava and A. V. Narayan. Recovery of bioactive compounds from tomato wastes : conventional versus emerging technologies : A review International Journal of Environmental Research and Development, 10(3):541-545. 2016.
25. Ajeet Kumar Srivastava , Pushpa Agrawal and Abdul Rahiman .Delignification of rice husk and production of bioethanol. International Journal of Innovative Research in Science, Engineering and Technology, 3(3), 10187-10194, 2014.
26. Ajeet Kumar Srivastava , Pushpa Agrawal and Abdul Rahiman. Pretreatment and production of bioethanol from different lignocellulosic biomass, International journal of advanced research, 2(4), 888-896, 2014.
27. Ajeet Kumar Srivastava and Pushpa Agrawal. Effective pretreatment and production of bioethanol from rice straw International Journal of Environmental Research and Development, Accepted for publication, 2013.

28. Ajeet kumar Srivastava and Pushpa Agrawal. Saccharification with *Phanerochaete chrysosporium* and ethanol production with *Saccharomyces cerevisiae*, International Journal of Atoms and Molecules, 2(4):3020–3029, 2012.
29. Ajeet kumar Srivastava and Pushpa Agrawal. Cellulose hydrolysis by *Cellulomonas fimi* and ethanol production by *Zymomonas mobilis*, International Journal of Atoms and Molecules, 2(2):214-222, 2012.
30. Ajeet kumar Srivastava and Pushpa Agrawal. Saccharification by fungi and ethanol production by bacteria using lignocellulosic materials, International Research Journal of Pharmacy 2012;3(5):411-414.
31. Ajeet kumar Srivastava and Pushpa Agrawal. Microbial pretreatment of lignocellulosic materials and production of bioethanol, International Journal of Environmental Research and Development 7(1A):375-380, 2012.

FDP/Workshops/ Seminars/ Symposium attended:

1. Participated and successfully completed the 4-day online FDP on “Next Generation Sequencing - From Genomics to Medicine” in collaboration with Leucine Rich Bio Private Limited, Bangalore Sponsored by Vision Group on Science and Technology (VGST), Department of Information Technology, Biotechnology & Science and Technology, Government of Karnataka & PES University Bengaluru from 25-28 July 2022.
2. Completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 28 June, 2021 to 2 July, 2021.
3. Completed FDP Organized By Department Of Biotechnology & Biochemical Engineering, Sree Buddha College of Engineering, Alappuzha On “Biofuels-Recent Trends and Future Prospects ” 30th August-3rd September 2021
4. Attended webinar on “Boost your Immune system by Natural-Biotics”, Conducted by Department of Chemistry, RVCE, on 12th June 2020.
5. International Webinar on “Nano-materials and Detection Technique of COVID-19” Organized by Department of Physics Babu Shivnath (P.G.) College, Mathura (U.P.) India, on 07 June, 2020.
6. “Bioenergy: Transition And Technology” Dr. B R Ambedkar institute of technology, Jalandhar (NITJ), 03 July 2020.
7. Organized one day Expert talk on “Equipment handling and Industrial applications of Liquid chromatography- mass spectroscopy” on 8th Feb 2019 by Department of Biotechnology at R.V College of Engineering , Bangalore .
8. Organized one day visit of Faculty and Students interaction from Govt. Science College Bangalore on 6th Feb 2019 by Department of Biotechnology at RV College of Engineering Bangalore.
9. Attended one day Hands on Training In-Vitro and In-Silico program on 25th Jan 2019 by Department of Biotechnology , IQAC, at RV College of Engineering Bangalore In Association with Monsanto (now BAYER) India, Bangalore.
10. Organized one day Expert talk on Role of Biogas Industries in Sustainable Energy Production on 23rd Jan 2019 by Department of Biotechnology at R.V College of Engineering , Bangalore .
11. Attended one day Cisco – RVCE IoT program on 19th Jan 2019 at RV College of Engineering Bangalore
12. Attended one day Public talk by Richard M Stallman on Computing, Freedom and Privacy on 18th Jan 2019 at RV College of Engineering Bangalore, supported by CODING CIUB, RVCE.

13. Attended one day Orientation program on Wolfram Mathematica on 12th Jan 2019 at RV College of Engineering Bangalore. Organized by Department of Mathematics .
14. Organized the two days Training Program on “Intellectual Property Rights and Innovations with Special Focus on Prior Art Search” held on 13th-14th Sep 2019 at RVCE in collaboration with Karnataka State Science and Technology (KSCST, IISC Campus).
15. Attended one day lecture series on “Characterization of Nano- Materials” on 28th Dec 2018.Organized by Department of Biotechnology R.V College of Engineering and Department of Biotechnology B.M.S College of Engineering in association of Women Scientists Association (IWSA) Bengaluru branch. at RV College of Engineering Bangalore.
16. Worked for two days Indo-US workshop on “Hazardous Materials Management” In association with Academy of Hazardous Material Management, India Chapter by Biotechnology, Civil Engineering, by IEM, Mechanical and Chemical Engineering Departments.at RV College of Engineering Bangalore during 23rd and 24th Nov 2018.
17. Organized Industry-Institute Talk on “Demo Workshop on Liquid Chromatography-Mass Spectrometry” held on 25/08/2018, RVCE Bengaluru.
18. Organized 3rd International Exhibition & Conference on Pharmaceutical Industry, Bengaluru International Exhibition Center (BIEC), Bengaluru by Department of Electronics and Instrumentation engineering & Department of Biotechnology on 15th Feb 2018
19. Participated in three days WRJC-2018 (World Environment Journal Congress) held on 10th-12th January 2018 at The Art of Living, Bangalore Kanakpura Road, Bangalore.

Books/Book Chapters Published:

1. Lingayya Hiremath, **Ajeet Kumar Srivastava**, Narendra Kumar S, Praveen Kumar Gupta and Raksha M, *Current prominence of Vesicular-Arbuscular Mycorrhizal (VAM) Fungi for agriculture crop investment Innovations in Biochemical Techniques* , Astral International, Chapter(10) Page no. 125-137, **2020**
2. **Ajeet Kumar Srivastava**, A V Narayan, Praveen Kumar Gupta, Lingayya Hiremath, Narendra Kumar S, Biodegradation of lignocellulosic biomass and production of ethanol using potential microorganisms, **Springer Nature**, ISBN, 978-3-030-23833-9, **2019**
3. Praveen Kumar, **Ajeet Kumar Srivastava**, Gupta, Lingayya Hiremath, Narendra Kumar S . Fungal Biodiversity producing xylanase enzymes involved in efficient uses of xylanolysis in Mycodegradation of Lignocelluloses, **Springer Nature**, ISBN, 978-3-030-23833-9, **2019**
4. Sindhu Rajendran R, Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, **Ajeet Kumar Srivastava**. Chapter entitled on " An Update on Effective Patient Monitoring and Diagnosis of Diseases in the Current Scenario" published in book " Computational Intelligence" By **Springer International Publishing**.. https://doi.org/10.1007/978-3-030-12500-4_11, ., eBook ISBN 978-3-030-12500-4, Hardcover ISBN 978-3-030-12499-1, **2019**
5. Sindhu Rajendran R, Meghamadhuri Vakil, Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, **Ajeet Kumar Srivastava**. Manuscript entitled on “An Overview on the concept of Speaker Recognition." accepted for the upcoming book, "Intelligent Systems for Biometric Systems, Soft Computing, Image Processing, and Data Analytics" By Apple Academic Press in collaboration with CRC press Hard ISBN: 9781771888004, **2019**
6. Ajeet Kumar Srivastava, Pushpa Agrawal, “Some inorganic and organic compounds enhance cellulase production in fungi and sugar yield in saccharification”, *Frontiers in environmental research*,

Academic excellence publisher & Distributors, 1st edition, ISBN: 978-93-80525-71-6, Chapter 8, page 74-80, 2012.

Interaction With Outside World:

1. The **MOU** formed between R.V. College of Engineering at Bangalore with Stroma Biotechnologies Pvt.Ltd,, Bangalore.
2. The **MOU** formed between R.V. College of Engineering at Bangalore with DSCIGN BIOSYS PVT LTD, Bengaluru
3. The **MOU** formed between R.V. College of Engineering at Bangalore with LIFYSIGNALS TECHNOLOGY PVT LTD, Bengaluru

Funded Projects:

1. Research project on “Waste to Clean Energy ” , Funding Agency Karnataka Council For Technological Upgradation (**KCTU ongoing**), **working as Expert** , Project Amount- 55 Lakhs Sanction No. KCTU/RV-WCE/2017-18/160. Project duration 01.08.2017-31.07.2019
2. Indian Institute of Science - MSME Center of Excellence funded project amount 7 lakhs entitled—Automated Underwater Purifier” (**PI: Dr. Ajeet Kumar Srivastava**), 28-12-2016 – Till present (**ongoing**).
3. Project selected for funding by UGC, New Delhi, details:“Studies on the recovery of bioactive compounds from tomato wastes using emerging technologies” submitted on September 2012 (**PI- Dr. A.V. Narayan, Co-I: Dr. Ajeet kumar Srivastava**) (presented on January 2013 at UGC New Delhi. Approved & funded by UGC, New Delhi, India from April, 2013 onwards, amount 12.44 Lakhs, project duration-1.04.2013-31.03.2017).
4. Research project on “Saccharification and production of ethanol from lignocellulosic materials by consortium of cellulolytic and xylanolytic microorganisms” **PI: Dr. Ajeet Kumar Srivastava**, Proposal submitted to BIRAC Sparsh, Budgeted amount 122.50 Lakhs, Accepted (BT/SPARSH0395/06/17) for processing and is being evaluated by BIRAC , The permanent reference number is BT/SPARSH0395/06/17.
5. Research project on “Development of Low cost Bio-adsorbents for Pharma waste treatment” **Co-I: Dr. Ajeet Kumar Srivastava**, Proposal submitted to BIRAC Sparsh, Budgeted amount 106 Lakhs, Accepted (BT/SPARSH0406/06/17) for processing and is being evaluated by BIRAC , The permanent reference number is BT/SPARSH0406/06/17.
6. Student Research Project Proposal on “app for the purpose of real – time measurement of air pollution” **Co-I: Dr. Ajeet Kumar Srivastava**, Proposal submitted to Cisco Research Center CG/JMAIL/1043910, \$2,620, Proposal ID and Acknowledgement received.

Awards:

1. Awarded as recognize with pride through research in RVCE Chapter on 26th January -2017.
2. Awarded for achieving academic excellence through research presentation from ISTE-RVCE chapter on 9th September -2008.