

RESUME

Personal Information:

Name : **Dr. Alak Kumar Singh**

Father's Name: Late Shri Jawahar Singh

Date of Birth : September 2, 1969



Permanent Address: Type IV/ D-44, West Campus,
H.B. Technical University Colony,
Kanpur (U.P.) 208002
Mob. 9696759061

Mailing Address: Professor,
Department of Food Technology
School of Chemical Technology
H. B. Technical University,
Kanpur UP 208002
Ph. 0512-2534001-5 extn. 139/ Mob. 9415475788

E mail ID: alaksingh@rediffmail.com / alaksingh@hbtu.ac.in

Nationality: Indian

Academic Qualification:

- High School from U.P. Board 1984 - First DIV
- Intermediate from U.P. Board 1986 - First DIV
- B. Tech. in Chemical Technology (Food Technology) from HBTI Kanpur, U.P (C.S.J.M. Univ. Kanpur) 1993 - FIRST DIV
- M. Tech. in Chemical Technology (Food Technology) from HBTI Kanpur, U.P (C.S.J.M. Univ. Kanpur) 1995 - FIRST DIV With Distinction
- Ph. D. in Chemical Technology from HBTI Kanpur, U.P (U.P. Technical Univ. Lucknow) – 2013

Other Exam Qualified:

Graduate Aptitude Test in Engineering (GATE -1993) examination organized by Indian Institute of Technology, Bombay under Ministry of Human Resource and Development , Government of India, qualified with Percentile 77.25

Teaching Experience:

- Lecturer from 29. 9.1995 to 29. 9. 2000 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Lecturer (Sr. Scale) from 29. 9. 2000 to 29. 9. 2005 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Assistant Professor from 29. 9. 2005 to 29. 9. 2008 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Associate Professor from 29. 9. 2008 to 14.10.2013 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Professor from 14. 10. 2013 to 31.8.2016 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Professor from 01. 09. 2016 to till date in Harcourt Butler Technical University Kanpur U.P. (Formerly H.B.T.I. Kanpur)

Research Undertaken:

- **“Studies on recovery, properties and utilization of citrus essential oils from waste peels”** for M. Tech. Chem. Tech. Food Tech.
- Worked in research programme on **“Controlled Atmosphere Storage of fruits”** for two years (During July 2002 to August 2004) at **Indian Institute of Technology (I. I. T.) Kharagpur** (West Bengal)
- **“Studies on the Utilization of Whey for the production of beverages”** for Ph. D in Food Technology.

Research Project:

- Creation of infrastructure facilities for Human Resource, funded by Ministry of Food Processing Industries, Government of India, New Delhi, one time Project. Total cost of the Project Rs 50 Lakhs has been completed in 2009.
- Research Project on topic “Utilization of Whey for the Production of Instant Energy Beverage by use of Immobilize Enzyme Technology”, funded by Council of Science & Technology, U.P., Lucknow for three years duration. Total cost of the project Rs 6.96 Lakhs has been completed in Dec., 2012.
- Development and characterization of Nano emulsion based sparkling wine in hard-shots pellets – ongoing (as Co-PI)
Sponsoring authority: Ministry of Human Resource and Development
Govt. of India Project cost: Rs. 17.23 lakh. (2019)-ongoing as Co-PI
- Development of functional fat spread to reduce the risk of coronary heart diseases- ongoing (as Co-PI)
Sponsoring authority: Ministry of Human Resource and Development,
Govt. of India Project cost: Rs. 18.03 lakh. (2019)
- Development of symbiotic beverage from underutilized Indian fruits to alleviate oxidative stress and inflammation in gut- ongoing (as Co-PI)
Sponsoring authority: Ministry of Human Resource and Development,
Govt. of India Project cost: Rs. 18.96 lakh. (2019)
- Simplifying 3 D culture for easy adaptation-ongoing (as Co-PI) Sponsoring authority : DST, Govt. of India Project cost: Rs 35 Lakh (2021)

Research Guidance:

- **B. Tech. Projects Supervised: 90**
- **M. Tech. Theses Supervised: 31**

- **Ph. D thesis supervised: 08** (02- Awarded, 08- In progress)

Degree	Name	Project Title	Status
Ph.D.	Mr. Ravi Kumar	Production of enzyme clarified juices from selected Indian tropical fruits	Awarded 2021
	Mr. Mahendra Kumar	Toxic heavy metals removal from industrial effluents by adsorption process	Awarded 2021
	Mr Mohit Yadav,	Application of Nano particles in extension of shelf life of foods	In-Progress
	Mr. P K. S. Sachan	Removal of heavy metals from industrial waste water	In-Progress
	Mr Shakti Singh Chauhan	Study on processing of millets.	In-Progress
	Mr. Dhawal Asthana	Processing, characterization and quality of avocado beverage as specialty food.	In-Progress
	Mr Vipul Kumar	Study on preparation, characterization and quality assurance of beverage prepared by incorporating bioactive components from bitter gourd as specialty food for diabetic persons.	In progress
	Prabhat Kr Mahour	Extraction, characterization and application of peel fruit pulp pectin	In progress
	Mr Vivekanand	Broad area: fruits and vegetables	In progress
	Mr. Yogesh Awasthi	Broad area: Nanomaterials	In progress

- **No. of Published Research Papers: 37**

- In Referred Journals: **22** (International: 20 + National: 2)
- In Proc. of Conferences: **15**

- **Reviewer of Scientific Journal:**

- (i) Reviewer of International Scientific Journal “Journal of Food Science” of IFT USA
- (ii) Reviewer of International Scientific Journal “Journal of Food Science Education” of IFT USA
- (iii) Reviewer of International Scientific Journal “Comprehensive Reviews in Food Science and Food Safety” of IFT USA

M. Tec & Ph.D viva voce examination conducted in Other Universities

1. Amity University New Delhi
2. IARI Pusa, New Delhi
3. AMU Aligarh
4. BHU Varanasi
5. Integral University, Lucknow

Short Term Courses, FDP Attended/Organized:

- (1) Summer School on “Recent Advances in the Quality of Cereals, Pulses And Oilseeds” at Department of Agriculture Biochemistry, C. S. Azad University of Agriculture and Technology, Kanpur, U.P., during May 25-June 14, 1999. Sponsored by Education Division of ICAR New Delhi.
- (2) Short Term Training Programme on “Eco-Friendly Chemical Technologies” organized by the Department of Oil & Paint Technology, H.B.T.I. Kanpur, U.P., during March 11- 24, 2002. Sponsored by AICTE, New Delhi.
- (3) Short Term Training Programme on “Global Industrial Concepts in Textiles” organized by the Government Central Textile institute Kanpur, U.P., from January 10 to 21, 2005 sponsored by AICTE through ISTE, New Delhi.
- (4) Refresher course on “ Applied Mathematical Techniques for Chemical Sciences” organized by the Networking cell, H.B.T.I. Kanpur U.P., during April 11-15, 2007 sponsored by TEQIP-World bank.
- (5) Refresher course on “Biotechnological Approaches for Chemical Process Industries ” organized by the Networking cell, H.B.T.I. Kanpur U.P., during May 11-15, 2007 sponsored by TEQIP-World bank.
- (6) Faculty Development Program on “Curriculum Development and Evaluation Methods in Technical Education” under TEQIP Phase-II jointly organized by Plastic Technology Department and Mechanical Engineering Department, H.B.T.I., Kanpur U.P., during July 1-6, 2013

- (7) Attended and delivered a expert lecture in Faculty Development Program on “Advances in Enzyme Production & their Industrial Application” under TEQIP Phase-II organized by Biochemical Engineering & Food Technology Department, H.B.T.I., Kanpur U.P., during December 19-24, 2013
- (8) Organized and delivered a expert lecture in Faculty Development Program on “Emerging Trends in Food and Bioprocess Industries” under TEQIP Phase-II jointly organized by Department of Biochemical Engineering & Department of Food Technology, H.B. Technical University., Kanpur U.P., during February 6-11, 2017
- (9) Organized one week Induction Program for New Entrants, 2017-18, as per mandate of AICTE, at HBTU Kanpur during January 15-21, 2018 and acted as Faculty Mentor & Motivational Activity Coordinator.
- (10) Attended Summer Training Program on “Active Learning for Senior Faculty” organized by Knowledge Incubation for TEQIP, IIT Kanpur U.P., during June 11-15, 2018
- (11) Organized three weeks Induction Program for New Entrants, 2018-19, as per mandate of AICTE, at HBTU Kanpur during July 2018 and acted as Deputy Coordinator of Induction Program.
- (12) Attended a Faculty Development Program on “Recent Advances in Chemical Engineering” under TEQIP-III organized by Department of Chemical Engineering, H.B. Technical University, Kanpur U.P., during July 23-27,2018
- (13) Worked as Co-Chairman in one week Faculty Development Program on “Recent Development on Food Processing and Packaging” Organized at HBTU, Kanpur during 24- 29 September, 2018.
- (14) Attended a Faculty Development Program on “Methods and Techniques for Enhanced Teaching and Learning in Technical Education” under TEQIP-III

organized by Department of Chemical Engineering, H.B. Technical University, Kanpur U.P., during October 15-20, 2018

(15) Attended a Faculty Development Program on “Material Synthesis and Advanced Characterization Techniques” under TEQIP-III organized by Department of Chemistry, H.B. Technical University, Kanpur U.P., during December 1-4, 2018

(16) Organized three weeks Induction Program for New Entrants, 2019-20, as per mandate of AICTE, at HBTU Kanpur during July 31- August 19, 2019 and acted as Coordinator of Induction Program.

(17) Acted as co-chairman in one week Faculty Development Program on “Recent advancement in Food Processing and Preservation ” under aegis of TEQIP-III, organized by Department of Food Technology, H.B. Technical University, Kanpur U.P., during August 26-31, 2019

Work Shop Attended/Organized:

(1) “Patent Awareness Work Shop” held on July 19, 2000 at H.B.T.U. Kanpur, U.P., organized by the Department of Chemical Engineering.

(2) “IPR & Technology Transfer: Theme-Knowledge & Technology as the Driving Force for Economic Growth and National Productivity” held on April 8, 2002 at I.I.T. Kharagpur, W.B., organized by the Department of Sponsored Research & Industrial Consultancy.

(3) “IPR & Technology Management ” held on January 3, 2003 at I.I.T. Kharagpur, W.B., organized by the Department of Sponsored Research & Industrial Consultancy.

(4) Workshop on “Computer Aided Engineering: Special focus on finite element analysis technique and dynamic simulation technique” organized by the

Networking cell, H.B.T.I. Kanpur U.P., during June 8-10, 2007 sponsored by TEQIP-World bank.

- (5) Workshop on “Modern Analytical Techniques for Research and Industry” organized by the Department of Chemistry and Networking cell, H.B.T.I. Kanpur U.P., during Nov. 10 -14, 2008 sponsored by TEQIP-World bank.
- (6) Workshop on “Eco-Friendly Wet Processing in Textile Industry” organized by the Department of Textile Chemistry, U.P.T.T.I., Kanpur U.P., during Nov. 24 -26, 2008 sponsored by TEQIP-World bank.
- (7) Workshop on “Textile Testing” organized by the Department of Textile Technology, U.P.T.T.I., Kanpur U.P., during Feb. 3 -5, 2009 sponsored by TEQIP-World bank.
- (8) Workshop on “Testing of Adulterating Materials in Food Items” organized by the Department of Basic Science, U.P.T.T.I., Kanpur U.P., during Mar. 2 -4, 2009 sponsored by TEQIP-World bank.
- (9) An Intra college Tech fest “Microcosm” organized by the Department of Biochemical Engineering & Food Technology, HBTI, Kanpur U.P., during Mar. 30 -31, 2012
- (10) State Level Faculty Interaction Seminar under the aegis of Department of Technical Education, Government of U.P., organized at H.B.T.I., Kanpur U.P., during June 8-9, 2015, sponsored by World Bank TEQIP-II
- (11) Workshop on “Intellectual Property Rights and Patenting” organized by Engineering Staff College of India in collaboration with H.B.T.I. Kanpur U.P., during August 27 -29, 2016 sponsored by World Bank TEQIP-II
- (12) Workshop on “Occupational Health and Safety Management Practices” organized by Engineering Staff College of India in collaboration

with H. B. Technical University Kanpur U.P., during October 03 -05, 2016 sponsored by World Bank TEQIP-II

- (13) Workshop on “Energy Conservation and Energy Audit in Academic Institutions” organized by Engineering Staff College of India in collaboration with Department of Chemical Engineering, H. B. Technical University Kanpur U.P., during March 07 -09, 2017 sponsored by World Bank TEQIP-II
- (14) Workshop on “Effective Pedagogy for Engineering Faculties” organized by Engineering Staff College of India in collaboration with Department of Electrical Engineering, H. B. Technical University Kanpur U.P., during March 26 -28, 2017 sponsored by World Bank TEQIP-II
- (15) Workshop on “Management Capacity Enhancement Programme Incompliance with NBA and NAAC Accreditation” organized by Engineering Staff College of India in collaboration with Department of Electrical Engineering, H. B. Technical University Kanpur U.P., during March 29 -31, 2017 sponsored by World Bank TEQIP-II
- (16) Training Workshop for Faculty Mentors on “Induction Programme for New Students” organized by National Project Implementation Unit at Harcourt Butler Technical University, Kanpur U.P., during September 22 -24, 2017 sponsored by World Bank TEQIP-III
- (17) Workshop on the occasion of World Food Day 2017 on “Change the Future of Migration : Invest in Food Security and Rural Development ” organized by AFST (I) Kanpur chapter & ABEFT, HBTU Kanpur in STEP-HBTI, on October 16, 2017, sponsored by AFST(I) Kanpur chapter.
- (18) Workshop on “Outcome based education and NBA-SAR preparations” organized by H.B Technical University Kanpur in collaboration with Thiagarajar College of Engineering, Madurai Tamilnadu, during Jan 31 and Feb 1, 2018 sponsored by World Bank TEQIP-III

- (19) Training Workshop on “Academic Process For the Implementation of Outcome Based Education” organized by H.B Technical University Kanpur in collaboration with Thiagarajar College of Engineering, Madurai Tamilnadu, during Feb 19-23, 2018 sponsored by World Bank TEQIP-III
- (20) Workshop on “Outcome based accreditation for undergraduate engineering programs” organized by H.B Technical University Kanpur and Uttar Pradesh Textile Technology Institute, Kanpur, during March 23-23, 2018 sponsored by World Bank TEQIP-III
- (21) Workshop on “Cancer awareness” organized by , Dhanvantri Super Specialty Hospital Kanpur, on May 5, 2018 at Radhakrishnan Auditorium, HBTU Kanpur
- (22) Workshop on the occasion of World Food Day 2018 on “Our actions are our future: A zero hunger world by 2030 is possible” organized by AFST (I) Kanpur chapter & Department of Food Technology, HBTU Kanpur in STEP-HBTI auditorium, on October 16, 2018, sponsored by AFST(I) CFTRI Mysore.
- (23) Attended Workshop on “NBA accreditation: from output to outcome” under aegis of NPIU and organized by SPIU-UP, on April 12, 2019 at Lucknow
- (24) Symposium was organized on the occasion of World Food Day 2019 on “Healthy Diets for Zero Hunger World” organized by AFST (I) Kanpur chapter & Department of Food Technology, HBTU Kanpur in Radhakrishnan auditorium HBTU Kanpur, on October 16, 2019 under the aegis of TEQIP-III
- (25) Co-chairman of National Workshop on “Rapid detection of Food Adulteration” organized by department of Food Technology, HBTU Kanpur under the aegis of TEQIP-III, during September 30 & October 1, 2019

Associated Academic Experience:

- Member, Board of Studies for Food Technology discipline at HBTI /HBTU Kanpur U.P
- P.G. Coordinator in the Department of Biochemical Engineering & Food Technology, HBTI Kanpur U.P., for Food Technology discipline.
- Faculty advisor of Association of Biochemical Engineers & Food Technologists HBTI Kanpur, U.P
- Managing Summer Training of undergraduate and postgraduate Food Technology students of the Department.
- Managing Educational Tour of final year undergraduate Food Technology students of the Department.
- Worked as co-convener in a short Bakery Course organized by STEP-HBTI Kanpur U.P., for Entrepreneurial Development and Training Programme.
- Examiner in Food Technology Theory and Practical papers of U. P. Technical University, Lucknow U.P.
- Examiner in Food Technology Theory and Practical papers of C.S.J.M. University, Kanpur U.P.
- Examiner in Food Technology Theory and Practical papers at undergraduate and postgraduate level of Dr. B. R. Ambedkar, University, Agra U.P.
- Examiner in Food Technology Theory papers at undergraduate level of Bundelkhand University, Jhansi U.P.
- Examiner in Food Technology Theory papers at diploma level of Board of Technical Education, Government of Goa.

- Examiner in Food Bio Technology theory papers at Integral University, Lucknow, U.P
- Worked as co-convener in Vocational Training Programme on “Preservation and Processing of Summer Seasonal Fruits and vegetables” organized by BEFT Department, HBTI Kanpur under U.P., TEQIP-World Bank Project during May 8 – 20, 2006
- Member Academic Council National Sugar Institute, Government of India, Ministry of Consumer Affairs, Food & Public Distribution, Kanpur, UP from 2012 to till date.
- Delivered a lecture on “Food Processing” in Science Congress held at Jawahar Navodaya Vidyalaya Sarsaul, Distt. Kanpur Nagar U.P., Ministry of HRD, (Department of Education) Government of India, New Delhi on November 26, 2012
- Appointed as an examiner for setting the question paper and examining the answer books of chemistry for National level entrance exam for admission to A.N.S.I. (Sugar Tech) of National Sugar Institute, Government of India, Ministry of Consumer Affairs, Food and Public Distribution, Kanpur in the month of May 2013
- Appointed as an examiner for setting the question paper and examining the answer books of chemistry for National level entrance exam for admission to A.N.S.I. (Sugar Tech) of National Sugar Institute, Government of India, Ministry of Consumer Affairs, Food and Public Distribution, Kanpur in the month of May 2015
- Appointed as an examiner for setting the question paper and examining the answer books of chemistry for National level entrance exam for admission to A.N.S.I. (Sugar Tech) of National Sugar Institute, Government of India, Ministry of Consumer Affairs, Food and Public Distribution, Kanpur in the month of May 2017

- Member syllabus committee at Board of Technical Education U.P. 2015 to till date.
- Delivered a expert lecture in the month of September 2015 to the polytechnic teachers at Institute of Research, Development and Training Institute, Kanpur, U.P
- Member, Board of Studies for Food Technology discipline at Bundelkhand University Jhansi U.P 2017
- Member Research Degree Committee of Food Technology at Bundelkhand University Jhansi U.P. 2016 to till date.
- Appointed as an external examiner to evaluate thesis and conduct Ph. D viva-voce examination at Amity University, Greater Noida, U.P. in July 2017.
- Appointed as an external examiner to evaluate Ph. D course work at Indian Agriculture Research Institute, Pusa, New Delhi in September 2017
- Appointed as subject expert member of selection committee for Ph. D students 2017 at H.B. Technical University, Kanpur U.P.
- Acted as Chairperson of Scientific session in FAC Con 2017: an International Conference on Fight Against Cancer, held at C.S.J.M. University, Kanpur UP during October 5-7, 2017
- Delivered expert lectures on subject Food Technology in GATE coaching of Bundelkhand University Jhansi under aegis of TEQIP-III during Dec 22-23, 2018
- Delivered expert lecture on February 21, 2019 in National Workshop on Agro & Food Processing Industry: Udyam Samagam on the topic “Technological challenges for MSME in Food Processing Sector” organized by Ministry of MSME, Govt. of India, MSME development institute, Kanpur, U.P and program was held at Fatehpur UP
- Delivered expert lecturer for National Training on “ Recent Trends in Value Addition of Vegetable” held under “Center for Advanced Science and Technology” organized by Chandra Shekhar Azad University of Agriculture and Technology, Kanpur on “Techniques of Vegetables Processing”, held on March 05-06, 2019.

- Deliver an expert Lecture on “ Recent Advantages in Post-Harvest Processing of Pulses and Vegetable” in national conference “ Post-Harvest Technology of Vegetable for Increasing Shelf Life” organized by Chandra Shekhar Azad University of Agriculture and Technology, Kanpur held on March 13-14, 2019.
- Member BoS, Post harvest Engineering department, AMU, Aligarh 2022
- Member, Academic Council, National sugar Institute, Kanpur UP, 2022

Associated Administrative Experience:

- Acted as Warden of first year B. Tech. boys hostel (LV Old hostel East Campus) during Feb. 2005 to July 2007
- Acted as Warden of Second year B. Tech. boys hostel (WCH II Hostel West Campus) during August 2007 to July 2009
- Departmental coordinator of TEQIP-World Bank project.
- Departmental representative in Industry Institute Partnership Cell.
- Acted as Assistant Superintendent of Examination in U. P. Technical University Semester Examination at HBTI Kanpur Centre for 4 years
- Acted as Group Leader of Centre Controllers appointed by U.P. Technical University Lucknow for four reputed Engineering colleges in Kanpur city during Semester examinations from 2008 to 2011.
- Acted as Assistant Dean Student Welfare, at Institute level, HBTI Kanpur w.e.f., 23.7.2009 to 29.9.2014
- Acted as Member of Training & Placement Cell for Chemical Engineering & Chemical Technology (Bio, Food, Oil, Paint, Plastic & Leather Technology) branches w.e.f., June 2009 to till Dec. 2010
- Appointed as Officer - in- Charge Security of, HBTI Kanpur U.P., w.e.f., 02.02.2010 to 2. 7. 2011
- Acted as Member in Proctorial Board of Institute w.e.f., July 26, 2009 to 29.9.2014
- Member of House Allotment Committee at HBTI, Kanpur U.P.
- Member of House Building Advance Committee at HBTI, Kanpur U.P.
- Appointed as an observer for Defence Research and Development Organization (DRDO) examination 2012 by Government of India, Ministry of

Defence, DRDO, Centre for Personnel Talent Management (CEPTAM)
Metcalfe House Complex, New Delhi in the month of July 2012

- Appointed as an observer for Defence Research and Development Organization (DRDO) examination 2013 by Government of India, Ministry of Defence, DRDO, Centre for Personnel Talent Management (CEPTAM) Metcalfe House Complex, New Delhi in the month of August 2013
- Appointed as an observer for Defence Research and Development Organization (DRDO) examination 2015 by Government of India, Ministry of Defence, DRDO, Centre for Personnel Talent Management (CEPTAM) Metcalfe House Complex, New Delhi in the month of August 2015
- Appointed as First Nodal Officer of Hon'ble Chief Minister's public grievance portal-Integrated Grievance Redressal System-Jansunwai at H. B. Technical University, Kanpur U.P. from February 2016 to till date.
- Appointed as an observer for Defence Research and Development Organization (DRDO) examination 2016 by Government of India, Ministry of Defence, DRDO, Centre for Personnel Talent Management (CEPTAM) Metcalfe House Complex, New Delhi in the month of August 2016
- Appointed as Executive member of Admission Committee of H. B. Technical University, Kanpur U.P. from December 2016 to till date.
- Appointed as founder Chief Warden of all 12 hostels of H. B. Technical University, Kanpur U.P. from April 2017 to till date.
- Appointed as founder Associate Dean of Student Welfare of H. B. Technical University, Kanpur U.P. from June 2017 to Oct 2021
- Appointed as Dy Chief Proctor of H. B. Technical University, Kanpur U.P. from June 2017 to Oct 2021.
- Appointed as Dy coordinator for admission of first year B. Tech. students through JEE mains examination 2017
- Appointed as Chairman and member in various enquiry committees constituted by Vice-Chancellor of the university from time to time.

- Head, Department of Food Technology, School of Chemical Technology, H. B. Technical University, Kanpur from 15.10.2018 to 25.7.2024.
- Dean, School of Chemical Technology, H. B. Technical University, Kanpur from 12.11.2020 to 23.11.2022
- Head, Department of Oil Technology-additional charge, School of Chemical Technology, H. B. Technical University, Kanpur *from 15.10.2018 to 31.7.2022*
- Member , Board of Management, AMU, Aligarh 2022

Contribution in Organizing Seminar/Symposium:

- (1) Acted as Convener in a National Seminar on “Emerging Trends in Bioprocess & Food Processing Industries: Genesis 2006” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur , during March 25-26, 2006 sponsored by U. P. Pollution Control Board, Lucknow, U.P.
- (2) Acted as Convener in a National Symposium on “Recent Technological Developments in Bioprocess & Food Processing Industries: Genesis 2009” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur & Association of Biochemical Engineers & Food Technologist, during Feb., 14-15, 2009 sponsored by Ministry of Food Processing Industries, Govt. of India, New Delhi
- (3) Acted as Convener in a National Seminar on “Challenges and Prospects in Bio-energy & Food security” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur, on March 9, 2011 sponsored by U. P. Pollution Control Board, Lucknow, U.P.
- (4) Acted as Convener in Golden Jubilee National Seminar on “Advances in Bioprocesses For Environmental safety and Nutritional Security: Genesis 2013” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur, U.P. & Association of Biochemical Engineers & Food Technologist, during March 2-3, 2013

(5) Acted as Convener in Golden Jubilee National Seminar on “Advances in Bioprocesses for Health Care Food Products: Genesis 2014” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur under the aegis of TEQIP- world Bank phase-II in March 2104

(6) Acted as coordinator in National Seminar on “Recent Development and Prospects in the area of Food Biotechnology: Genesis 2016” organized by Department of Biochemical Engineering & Food Technology, HBTI Kanpur under the aegis of World Bank TEQIP-II during March 5 and 6, 2016

Publications:

In Referred Journals

International Journals:

(1) A. K. Singh, H. K. Sharma, P. Kumar and B. Singh (1999). “ Physico-chemical changes in white button mushroom (*Agaricus bisporus*) at different drying temperatures” International Journal of Mushroom Research and Development, Mushroom Res. 8(2) : 27-29

(2) Alak Kumar Singh, Shishir Sinha and Karunakar Singh (2009) “Study on β -Galactosidase Isolation, Purification and Optimization of Lactose Hydrolysis in Whey for Production of Instant Energy Drink” International Journal of Food Engineering, Vol. 5 (2) : Article 5

(3) Alak Kumar Singh and Karunakar Singh (2012) “Study on Hydrolysis of Lactose in Whey by use of Immobilized Enzyme Technology for Production of Instant Energy Drink” Advance Journal of Food Science and Technology, Vol. 4 (2)

(4) Alak Kumar Singh and Karunakar Singh (2012) “Utilization of Whey for the Production of Instant Energy Beverage by Using Response Surface Methodology” Advance Journal of Food Science and Technology, Vol. 4 (2)

- (5) Vivek Kumar and Alak Kumar Singh (2018) “ Computerized and Electronic Controls in Food Packaging” Journal of Applied packaging Research, Vol. 10(1)
- (6) Mahendra Kumar and Alak Kumar Singh (2018) Study of sorption and desorption of Cd (II) from aqueous solution using isolated green algae *Chlorella vulgaris*, Applied Water Science, 8:225
- (7) Mahendra Kumar and Alak Kumar Singh (2019) Valorization of coal fired-fly ash for potential heavy metal removal from the single and multi-contaminated system, Heliyon,5
- (8) Ravi Kumar and Alak Kumar Singh (2019) Clarification of Guava (*Psidium Guajava*) Fruit juice using multi-enzyme treatment: optimization of processing parameters, International Journal of Innovative Technology and Exploring Engineering, 8 (12):5266
- (9) Ravi Kumar and Alak Kumar Singh (2019) Effect of Multi-enzyme (Pectinase, Cellulase and Hemicellulase) Treatment on Clarification of Papaya (*Carica papaya*) Fruit Juice, International Journal of Recent Technology and Engineering, 8 (4)
- (10) Mahendra Kumar and Alak Kumar Singh (2020) Biosorption of Hg (II) from aqueous solution using algal biomass: kinetics and isotherm studies, heliyon,6
- (11) Mahendra Kumar and Alak Kumar Singh (2021) Remediation strategies for heavy metals contaminated ecosystem: A review, Environmental and Sustainability Indicators, 12
- (12) Mahendra Kumar and Alak Kumar Singh (2021) A review on advances and mechanism for the phycoremediation of cadmium contaminated water, Cleaner Engineering and Technology, 5

- (13) Mahendra Kumar and Alak Kumar Singh (2022) Therapeutic Nanoparticles: Recent developments and their targeted delivery applications, Nano Biomed. Eng, 14(1)
- (14) Ravi Kumar, Mahendra Kumar, Sunil Kumar Yadav and Alak Kumar Singh (2023) Response surface optimization of Banana (Musa sp.) Fruit juice clarification using multi-enzyme system (pectinase, cellulose and hemicellulase), Journal of Namibian Studies; 35
- (15) Ravi Kumar, Mahendra Kumar, Shiv Kumar and Alak Kumar Singh (2023) Physico-Chemical and Sensory Evaluation of No-Sugar-Added Mango Spread Made by using the Hydrocolloid Locust Bean Gum (LBG) as an Alternative for High Calorie Sugar Based Regular Mango Jam, Journal of the Maharaja Sayajirao University of Baroda; 57 (3)
- (16) Ravi Kumar, Mahendra Kumar, Shiv Kumar and Alak Kumar Singh (2023) Production and Quality Characterization of Carrageenan Based No-Sugar-Added Mango Spread as an Alternative for Sugar based Mango Jam, Industrial Engineering Journal; 16 (6)
- (17) Ravi Kumar, Mahendra Kumar, Shiv Kumar and Alak Kumar Singh (2023) Potential of Some Major Indian Tropical Fruits (Banana, Guava, Papaya) to Produce Enzyme-Clarified Juice and its Impact on Indian Processed Fruit Industry, Industrial Engineering Journal; 16 (7)
- (18) Prabhat Kumar Mahour and Alak Kumar Singh (2024) Optimization of process parameters for pectin extraction from unripe bael pulp using response surface methodology, Journal of Post Harvest Technology, 12 (1) (UGC-CARE and NAAS) (IF : 4.25)
- (19) Prabhat Kumar Mahour and Alak Kumar Singh (2024) Ultrasound Assisted Extraction of Pectin from Unripe Bael Using Box-Behnken Design Based Optimization of a Process Parameters, Romanian Journal of Acoustics and Vibration, 21 (1): 35 - 42, (SCIE/SCOPUS INDEXED)
- (20) Prabhat Kumar Mahour and Alak Kumar Singh (2024) Unripe bael pulp pectin extraction and characterization using the microwave assisted method, Journal of Applied Horticulture, 26(2): 267-280, (SCOPUS INDEXED)

National Journals:

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- (5) Alak Kumar Singh (2018) “ Optimization of flax seed flour fortified biscuits” Research Paper presented in International Conference on Food and Nutrition, Organized by Institute for Scientific and Engineering Research, at Jodhpur India on October 6, 2018
- (6) Anit Kumar, Kaustubh Kumar, Lakshya Bahl, Vishwan Bharadwaj, Ashutosh Upadhyay, **Alak Kumar Singh** (2018) Gluten-free Muffins: Optimization and Characterization of gluten free Muffins Based on Seera and Quinoa Flour. International conference (8th International Food Convention (IFCON- 2018)) organized by CSIR-CFTRI, Mysore, India on 12-15th December, 2018.
- (7) Sayyad Abdul and **Alak Kumar Singh** (2019) International Conference On Recent trends in agriculture, food science, forestry, horticulture, aquaculture, animal sciences, biodiversity and Climate Change, Title “Sorption isotherm study of ICPD treated-HAD banana slices” Organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, 21 September, 2019.
- (8) Anoop Kumar, Sayyad Abdul and **Alak Kumar Singh** (2019) International Conference On Recent trends in agriculture, food science, forestry, horticulture, aquaculture, animal sciences, biodiversity and Climate Change, Title “Evaluation of physicochemical properties of RW dried Indian Jujubi Pulp Powder” Organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, 21 September, 2019.
- (9) Anoop Kumar, Sayyad Abdul and **Alak Kumar Singh** (2019)

International Conference On Recent trends in agriculture, food science, forestry, horticulture, aquaculture, animal sciences, biodiversity and Climate Change, title “Sorption isotherm study of RW dried Indian Jujubi Pulp Powder” Organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, 21 September, 2019.

- (10) Sayyad Abdul and **Alak Kumar Singh** (2019) International Conference on Technological Innovations for Integration of Food and Health, Title “Swell drying of fruits and vegetables” Tezpur University, Tezpur, Assam February 14-16, 2019.
- (11) Anoop Kumar, Sayyad Abdul and **Alak Kumar Singh** (2019) International Conference on Technological Innovations for Integration of Food and Health, Title “Refractance Window Drying of Fruits and Vegetables” Tezpur University, Tezpur, Assam, February 14-16, 2019.
- (12) Anit Kumar, Vivek Kumar and **Alak Kumar Singh** (2019) Enhancement of Quality and Shelf Life of Orange (*Citrus reticulata*) by Using Orange Peel-Based Coating Treatment, International Conference on Technological Innovations for Integration of Food and Health (TiiFH 2019): A focus on North-Eastern India, held between February 14-16, 2019 at the Tezpur University, Tezpur, Assam, India.
- (13) Anit Kumar, Vivek Kumar and **Alak Kumar Singh** (2019) Nutritional and Pasting property of wheat flour and fermented wheat flour (Seera) in International Conference on Technological Innovations for Integration of Food and Health (TiiFH 2019): A focus on North-Eastern India to be held between February 14-16, 2019 at the Tezpur University, Tezpur, Assam, India.
- (14) Mohd Salman Mohsin and Alak Kumar Singh (2020) Enhancement of nutritional and functional characteristics of multigrain noodles by fortification with Moringa leaves , Spinach powder and Flax seeds, in

International conference on “Innovation and opportunities in Chemical Engineering for sustainable environment and energy” organized by Department of Chemical Engineering, Raja Balwant Singh, Engineering Technical Campus, Agra during 27-29 Feb. 2020.

Last Salary Drawn:

- Basic Pay: Rs. 1,99,600/- (Level 14, as per 7 th CPC)

Membership of Professional Bodies:

- (1) Life Member: Association of Food Scientists and Technologists (India).
- (2) Secretary, AFST(I) Kanpur chapter
- (3) Life Member: Oil Technologists Association of India (OTAI)
- (4) Life Member: Association of Biochemical Engineers & Food Technologists
- (5) Life Member: Indian Institute of Chemical Engineers
- (6) Life Member: International Harcourtian Alumni Association.
- (7) Member: Indian society for Technical Education (ISTE).
- (8) Honorary Secretary, Samajik Jan Kalyan Samit, Kanpur, U.P



Date: 05-10-2024

(Alak Kumar Singh)