

Khurram Yousaf

Associate Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Khurram Yousaf is working as Associate Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Khurram Yousaf has a PhD in Postharvest Processing. Dr. Khurram Yousaf has published 39 research articles & conference papers having a citation count of 364, carried out 2 projects and filed 2 intellectual property.

Qualifications

PhD in Postharvest Processing	2014 - 2018
Nanjing Agricultural University , China	
MS in Agricultural Engineering	2009 - 2011
University of Agriculture Faisalabad , Pakistan	
BS in Agricultural Engineering	2005 - 2009
University of Agriculture Faisalabad , Pakistan	

Experience

Associate Professor	2023- Present
Atta-Ur-Rahman School of Applied Biosciences	
Assistant Professor	2020 - 2023
Atta-Ur-Rahman School of Applied Biosciences	
Post-Doc	2018 - 2020
Nanjing Agricultural University, China , College of Engineering, Nanjing Agricultural University, China	
Research Assistant	2013 - 2014
innovative development strategies pvt ltd , G-14 Islamabad	

Professional Memberships

PEC	Since 2010
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Research Projects

National Projects	
Capacity Building on New Technologies to Reduce Post-Harvest Losses	2022
Funding Agency: COMCEC	
Amount: PKR 2,011,517.00	
Status: Approved_inprocess	
CROP RESIDUE TO REVENUE AT THE FARM (R2R)	2022
Funding Agency: The swiss global network for education, research and innovation	
Amount: PKR 1,105,000.00	
Status: Completed	

International Projects

Research Articles

An enhancement algorithm for head characteristics of caged chickens detection based on cyclic consistent migration neural network	2024
Zhenwei Yu Liqing Wan Khurram Yousaf Hai Lin Ji Zhang Hongchao Jiao Geqi Yan Zhanhua Song Fuyang Tian	
Poultry Science , Volume 103, Issue 6, Article Number 103663	

<b>Impact Factor:</b> 4.400   <b>Quartile:</b> 1   <b>Citations:</b> 8 <b>DOI:</b> 10.1016/j.psj.2024.103663	
<b>Assessing the factors of economic and environmental inefficiency of sunflower production in Pakistan: an epsilon-based measure model</b> <i>Adnan Abbas Amir Ikram Zulqarnain Mushtaq Khurram Yousaf Chengyi Zhao</i> <i>Frontiers in Environmental Science</i> , Volume 115, Article Number: 1186328 <b>Impact Factor:</b> 4.6   <b>Quartile:</b> 2 <b>DOI:</b> 10.3389/fenvs.2023.1186328	2023
<b>On-line weight estimation of broiler carcass and cuts by a computer vision system</b> <i>Innocent Nyalala Cedric Okinda Nelson Makange Tchalla Korohou Qi Chao Luke Nyalala Zhang Jiayu Zuo Yi Khurram Yousaf Liu Chao Kunjie Chen</i> <i>Poultry Science</i> , Volume 100, Issue 12, Article Number 101474 <b>Impact Factor:</b> 3.352   <b>Quartile:</b> 1   <b>Citations:</b> 16 <b>DOI:</b> 10.1016/j.psj.2021.101474	2021
<b>Drying process optimization of garlic slices in closed-loop heat pump drying system by Box-Behnken design</b> <i>Haolu Liu Khurram Yousaf Zhenwei Yu Asad Riaz Innocent Nyalala Muhammad Waqas Alam Chattha Kunjie Chen</i> <i>Journal of Food Processing and Preservation</i> , Pages 1-9, Article Number e16190 <b>Impact Factor:</b> 2.190   <b>Quartile:</b> 3   <b>Citations:</b> 5 <b>DOI:</b> 10.1111/jfpp.16190	2021
<b>Effect of moisture on physico-engineering properties of two husked and de-husked Chinese rice varieties</b> <i>Shakeel Ahmed Soomro Kunjie Chen Naimatullah Leghari Nelson Richard Makange Mecha Peter Khurram Yousaf Aasia Panhwar Sikandar Almani Zubair Ahmed Soomro</i> <i>International Agricultural Engineering Journal</i> , Volume 30(2), Pages 67-74 <b>Impact Factor:</b> N/A <b>DOI:</b> 114.255.9.31/iaej/EN/Y2021/V30/I2/67	2021
<b>Pyrolysis Kinetics and Thermodynamic Parameters of Ginkgo Biloba Residues using Thermogravimetric Analysis</b> <i>Yali Fang Khurram Yousaf Jing Liang Qi Gao Kunjie Chen</i> <i>Interiencia</i> , Volume 45(5), Pages 74-96 <b>Impact Factor:</b> 0.396   <b>Quartile:</b> 4 <b>DOI:</b> https://intercienciajournal.com/search.html	2020
<b>Study on Detection Method of Vomitoxin in Flour Based on Enrichment Treatment</b> <i>Guangpeng Zu Khurram Yousaf Wei Wu Kunjie Chen Haiming Yu</i> <i>Interiencia</i> , Volume 45(3), Pages 274-297 <b>Impact Factor:</b> 0.396   <b>Quartile:</b> 4 <b>DOI:</b> https://intercienciajournal.com	2020
<b>Influence of environmental conditions on drying efficiency and heat pump performance in closed and open loop drying of paddy</b> <i>Khurram Yousaf Haolu Liu Xu Gao Chao Liu Adnan Abbas Innocent Nyalala Muhammad Ahmad Muhammad Ameen Kunjie Chen</i> <i>Drying Technology</i> , Volume 38, Issue 16, Pages 2217-2230 <b>Impact Factor:</b> 4.452   <b>Quartile:</b> 2   <b>Citations:</b> 11 <b>DOI:</b> 10.1080/07373937.2019.1691011	2020
<b>Extraction Optimization, Purification and Immunostimulatory Activity in vitro of Polyphenols from Apple (Malus domestica) Peel</b> <i>Asad Riaz Khurram Yousaf Saqib Jabbar Muhammad Abid Malik Muhammad Hashim Mohamed Abdin Sains Malaysiana</i> , Volume 49(7), Pages 1553-1566 <b>Impact Factor:</b> 1.009   <b>Quartile:</b> 4   <b>Citations:</b> 5 <b>DOI:</b> 10.17576/jsm-2020-4907-08	2020
<b>Efficient pyrolysis of ginkgo biloba leaf residue and pharmaceutical sludge (mixture) with high production of clean energy: Process optimization by particle swarm optimization and gradient boosting decision tree algorithm</b> <i>Zhenwei Yu Khurram Yousaf Muhammad Ahmad Maryam Yousaf Qi Gao Kunjie Chen</i> <i>Bioresource Technology</i> , Volume 304, Article Number 123020 <b>Impact Factor:</b> 9.642   <b>Quartile:</b> 1   <b>Citations:</b> 40 <b>DOI:</b> 10.1016/j.biortech.2020.123020	2020

<b>An experimental study of stunned state detection for broiler chickens using an improved convolution neural network algorithm</b> <i>Chang-wen Ye Zhen-wei Yu Rui Kang Khurram Yousaf Chao Qi Kunjie Chen Yu-ping Huang</i> <i>Computers and Electronics in Agriculture</i> , Volume 170, Article Number 105284 <b>Impact Factor:</b> 5.565   <b>Quartile:</b> 1   <b>Citations:</b> 28 <b>DOI:</b> 10.1016/j.compag.2020.105284	2020
<b>Broiler stunned state detection based on an improved fast region-based convolutional neural network algorithm</b> <i>Chang-wen Ye Khurram Yousaf Chao Qi Chao Liu Kun-jie Chen</i> <i>Poultry Science</i> , Volume 99, Issue 1, Pages 637-646 <b>Impact Factor:</b> 3.352   <b>Quartile:</b> 1   <b>Citations:</b> 17 <b>DOI:</b> 10.3382/ps/pez564	2020
<b>Tomato volume and mass estimation using computer vision and machine learning algorithms: Cherry tomato model</b> <i>Innocent Nyalala Cedric Okinda Luke Nyalala Nelson Makangea Qi Chao Liu Chao Khurram Yousaf Kunjie Chen</i> <i>Journal of Food Engineering</i> , Volume 263, Pages 288-298 <b>Impact Factor:</b> 4.499   <b>Quartile:</b> 1   <b>Citations:</b> 118 <b>DOI:</b> 10.1016/j.jfoodeng.2019.07.012	2019
<b>Experimental Study of Drying Characteristics and Mathematical Modeling for Air Drying of Germinated Brown Rice</b> <i>Zhenwei Yu Khurram Yousaf YU WANG Kunjie Chen</i> <i>Sains Malaysiana</i> , Volume 48, No.10, Pages 2093-2101 <b>Impact Factor:</b> 0.643   <b>Quartile:</b> 4   <b>Citations:</b> 6 <b>DOI:</b> 10.17576/jsm-2019-4810-04	2019
<b>The optimization of starch gelatinization and quality attributes under hydrothermal treatment of paddy by response surface method</b> <i>Khurram Yousaf Adnan Abbas Xuejin Zhang Rui kang Eisa Belal Fiaz Ahmad Kunjie Chen</i> <i>Fresenius Environmental Bulletin</i> , Volume 28, No. 4, Pages 2771-2779 <b>Impact Factor:</b> 0.553   <b>Quartile:</b> 4 <b>DOI:</b> 20193515739	2019
<b>An Investigation of a Root Zone Heating System and Its Effects on the Morphology of Winter-Grown Green Peppers</b> <i>Muhammad Ameen Zhuo Zhang Xiaochan Wang Muhammad Yaseen Muhammad Umair Rana Shahzad Noor Wei Lu Khurram Yousaf Fahim Ullah Muhammad Sohail Memon</i> <i>Energies</i> , Volume 12(5), Article Number 933 <b>Impact Factor:</b> 2.702   <b>Quartile:</b> 3   <b>Citations:</b> 8 <b>DOI:</b> 10.3390/en12050933	2019
<b>Response surface methodology for optimisation and mathematical modelling of physico-engineering properties of paddy rice</b> <i>Shakeel Ahmed soomro Kunjie Chen Leghari Naimatullah Khurram Yousaf Dahri IA Ibrahim IE Idris SI Soomro SA</i> <i>Fresenius Environmental Bulletin</i> , Vol. 28, 11, Pages:7787-7794 <b>Impact Factor:</b> 0.553   <b>Quartile:</b> 4 <b>DOI:</b> 20219911169	2019
<b>Automatic measurement method of volume and surface area of jujube based on laser point cloud</b> <i>Mingqing Wu Huapin Luo Chuanfeng Li Xiaokang Yi Khurram Yousaf Shakeel Ahmed Soomro Kunjie Chen</i> <i>International Agricultural Engineering Journal</i> , Volume 28, No. 1, Pages 259-268 <b>Impact Factor:</b> N/A <b>DOI:</b> 114.255.9.31/iaej/EN/Y2019/V28/I1/29	2019
<b>Short-term responses of soil Cone Index and Biopore with different rates of straw incorporation in Rice-Wheat cropping system</b> <i>Eisa Belal Ding Qishuo He Ruiyin Li Yinian Khurram Yousaf John Fielke</i> <i>Fresenius Environmental Bulletin</i> , Vol. 27, 5A, Pages:3452-3461 <b>Impact Factor:</b> 0.691   <b>Quartile:</b> 4 <b>DOI:</b> 20183253213	2018
<b>Implementation of a novel approach for the evaluation of energy efficiency, management needs and sustainability of wheat production</b>	2018

Adnan Abbas Tahir Iqbal Muhammad Ahmad Khurram Yousaf Ehsan Elahi Minli Yang  
*Fresenius Environmental Bulletin* , Vol. 27, 10, Pages:6695-6703

**Impact Factor:** 0.691 | **Quartile:** 4

**DOI:**

[https://www.researchgate.net/publication/328448720\\_Implementation\\_of\\_a\\_novel\\_approach\\_for\\_the\\_evaluation\\_of\\_energy\\_efficiency\\_management\\_needs\\_and\\_sustainability\\_of\\_wheat\\_production/stats](https://www.researchgate.net/publication/328448720_Implementation_of_a_novel_approach_for_the_evaluation_of_energy_efficiency_management_needs_and_sustainability_of_wheat_production/stats)

**Fracture resistance of paddy as influenced by moisture, variety, orientation and loading rate under quasi-static compressive load**

2018

Shakeel Ahmed Soomro Kunjie Chen Khurram Yousaf Khalil Ahmed Ibupoto Muhammad Ameen Muhammad Sohail Memon Wu Mingqing Ibrahim Eltayeb  
Ibrahim Sohail Ahmed Soomro

*International Agricultural Engineering Journal* , Volume 27, No. 4, Pages 364-370

**Impact Factor:** N/A

**DOI:** 114.255.9.31/iaej/EN/Y2018/V27/I4/40

**Improving energy use efficiency of corn production by using data envelopment analysis (a non-parametric approach)**

2018

Adnan Abbas Yang Minli Khurram Yousaf Muhammad Ahmad Ehsan Elahi Tahir Iqbal

*Fresenius Environmental Bulletin* , Volume 27, No. 7, Pages 2725-2733

**Impact Factor:** 0.691 | **Quartile:** 4

**DOI:** <https://www.cabdirect.org/cabdirect/abstract/20193018001>

**Effect of multi-stage drying on energy consumption, the rate of drying, rice quality and its optimization during parboiling process**

2018

Khurram Yousaf Adnan Abbas Xuejin Zhang Shakeel Ahmed Soomro Muhammad Ameen Kunjie Chen

*Fresenius Environmental Bulletin* , Volume 27, No.12, Pages 8270-8279

**Impact Factor:** 0.691 | **Quartile:** 4

**DOI:** <https://www.cabdirect.org/cabdirect/abstract/20193230362>

**Performance Evaluation of Root Zone Heating System Developed with Sustainable Materials for Application in Low Temperatures**

2018

Muhammad Ameen Wang Xiaochan Muhammad Yaseen Muhammad Umair Khurram Yousaf Zhenjie Yang Shakeel Ahmed Soomro

*Sustainability* , Volume 10(11), Article Number 4130

**Impact Factor:** 2.592 | **Quartile:** 2 | **Citations:** 8

**DOI:** 10.3390/su10114130

**Effects of Different Drying Methods on Some Physical and Chemical Properties of Loquat (Eriobotrya japonica) Fruits**

2018

Fahim Ullaha, Kang Min Mansoor Khan Khattak, Said Wahab Nauman Wahabe, Muhammad Ameen Muhammad Sohail Memon Xingsheng Wang Shakeel Ahmed Soomro khurram yousaf Ninghui Li Jun Yang

*International Journal of Fruit Science* , Volume 18, Issue 4, Pages 345-354

**Impact Factor:** N/A | **Citations:** 14

**DOI:** 10.1080/15538362.2018.1435330

**Design and Thermal Analysis of an Air Source Heat Pump Dryer for Food Drying**

2018

Haolu Liu Khurram Yousaf Kunjie Chen Rui Fan Jiaxin Liu Shakeel Ahmed Soomro

*Sustainability* , Volume 10(9), Article Number 3216

**Impact Factor:** 2.592 | **Quartile:** 2 | **Citations:** 36

**DOI:** 10.3390/su10093216

**Comparative analysis of energy use efficiency in food grain production systems of pakistan**

2018

Adnan Abbas Minli Yang Khurram Yousaf Khurshied Ahmed Khan Tahir Iqbal Shahbaz Gul hassan

*Fresenius Environmental Bulletin* , Volume 27(2), Pages 1053-1059

**Impact Factor:** 0.691 | **Quartile:** 4

**DOI:** 20183156786

**Hydrothermal treatment under pressure on head rice yield and other quality attributes of Indica and Japonica rice cultivars**

2018

Khurram Yousaf Xuejing Zhang Adnan Abbas Tahir Iqbal Kunjie Chen Kang Rui

*International Agricultural Engineering Journal* , Volume 27(1), Pages 188-197

**Impact Factor:** N/A

**DOI:** 114.255.9.31/iaej/EN/Y2018/V27/I1/188

**Effectiveness of computer vision system and back propagation neural network in poultry stunning prediction**

2018

Changwen Ye Khurram Yousaf Xiao Sun Rui Kang Bin Pang Kunjie Chen  
International Agricultural Engineering Journal, Volume 27, No.1, Pages 289-297

Impact Factor: N/A

DOI: 114.255.9.31/iaej/EN/Y2018/V27/I1/289

**Contextual evaluation of a corn sheller and its vulnerability to different cultivars**

2017

Adnan Abbas Minli Yang Muhammad Iqbal Khurram Yousaf Shahbaz Gul Hassan Tahir Iqbal  
International Agricultural Engineering Journal, Volume 27(1), Pages 1-16

Impact Factor: N/A

DOI: 114.255.9.31/iaej/EN/Y2018/V27/I1/74

**The Optimization and Mathematical Modeling of Quality Attributes of Parboiled Rice Using a Response Surface Method**

2017

Khurram Yousaf Kunjie Chen Chen Cairong Adnan Abbas Yuping Huang Chaudhry Arslan Zhang Xuejin  
Journal of Food Quality, Volume 2017, Article ID 5960743, 13 pages

Impact Factor: 0.841 | Quartile: 4 | Citations: 19

DOI: 10.1155/2017/5960743

**Energy Use Efficiency in Wheat Production, A Case Study of Paunjab Pakistan**

2017

Adnan Abbas Yang Minli Riaz Ahmad Khurram Yousaf Tahir Iqbal  
Fresenius Environmental Bulletin, Volume 26, No. 11, pages 6773-6779

Impact Factor: 0.673 | Quartile: 4

DOI: 20173382610

**Quantification of mechanization index and its impact on crop productivity and socio-economic factors**

2017

Adnan Abbas Yang Minli Ehsan Elahi Khurram Yousaf Riaz Ahmad Tahir Iqbal  
International Agricultural Engineering Journal, Volume 26(3), Pages 59-64

Impact Factor: N/A

DOI: 114.255.9.31/iaej/EN/Y2017/V26/I3/59

**Optimizing the impact of temperature on bio-hydrogen production from food waste and its derivatives under no pH control using statistical modelling**

2015

C. Arslan A. Sattar C Ji S. Sattar Khurram Yousaf S. Hashim  
Biogeosciences, Volume 12, issue 21, Pages 6503–6514

Impact Factor: 3.700 | Quartile: 1 | Citations: 23

DOI: 10.5194/bg-12-6503-2015

**Effect of Field Plot Design on the Efficacy of Boom Sprayer**

2014

Khurram Yousaf Tahir Iqbal Muhammad Iqbal Muhammad Hanif  
Universal Journal of Agricultural Research, Volume 2(7), Pages 236-241

Impact Factor: N/A

DOI: 10.13189/ujar.2014.020702

## Conference Proceedings

**Effect of Drying Methods and Parboiling Conditions on Amylose Content and Parboiled Rice Quality**

2022

khurram yousaf Kunjie Chen Zhenwei Yu  
2022 ASABE Annual International Meeting, res.country(233,)

Citations: N/A

DOI: 10.13031/aim.202200217

**Heterojunction Silicon Photoconverters Obtained By The Evaporation Method in A Vacuum**

2019

Shoirbek Olimov Chen Nuo-fu A.M. Kasimakhunova Syed Jawad Ali Shah khurram yousaf Numan Abbas Tao Quan-li Yang Xiu-Yu  
2019 2nd International Conference on Computing, Mathematics and Engineering Technologies, iCoMET, res.country(177,)

Citations: 2

DOI: 10.1109/ICOMET.2019.8673499

**Experiment and Amount Optimization Analysis of Oil-Water Mixture Frying Machine Based on FLUENT**

2016

Xuejing Zhang Zhenwei Yu khurram yousaf Kunjie Chen  
2016 International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA 2016), res.country(48,)

Citations: N/A

DOI: 10.2991/msota-16.2016.56

## Book Chapters

---

### An Introduction of Biomimetic System and Heat Pump Technology in Food Drying Industry

2021

khurram yousaf Kunjie Chen Muhammad Azam Khan

In: *Book on Biomimetics*, Chapter 7, Pages 1-16

**Citations:** N/A

**DOI:** 10.5772/intechopen.93386

## Editorial Activities

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### CyTA - Journal of Food

2021

Reviewed Papers for Journals

**Impact Factor:** 2.25

## Intellectual Property

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### Copyrights

#### Patents

##### Curcumin solution prep ration for copying black text on to various surfaces

2021

**Status:** Filed

##### Manufacturing of TabCoal, long lasting charcoal combustible tablets

2021

**Status:** Licensed Filed

### Industrial Designs

### Trademarks

## Trainings

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### Food Safety Management System

2021

**Partner:** 0

**Duration:** 31-Dec-2021 to 31-Dec-2021

### Conference on Enabling Regulations to Accelerate Agricultural Innovations

2021

**Partner:** 0

**Duration:** 22-Jul-2021 to 22-Jul-2021

### Agri-Tech Solutions and Approaches to Sustainable Rural Development

2021

**Partner:** 0

**Duration:** 21-Jun-2021 to 26-Jun-2021