



## Dr. SYED TANVEER SHAH

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Department of Agriculture,  
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Khyber Pakhtunkhwa, Pakistan

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### Objective:

Requiring a challenging & responsible position in an organization which will broaden my horizon & enable me to use my skills & innovative abilities

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<b>Father's Name:</b>	Syed Raj Jehan	<b>Date of Birth:</b>	May 20 <sup>th</sup> 1987
<b>NIC No.:</b>	17301-6305910-3	<b>Religion:</b>	Islam
<b>Marital Status:</b>	Single	<b>Domicile:</b>	Mardan (Khyber Pakhtunkhwa)

### Qualification:

- **Ph.D in Agriculture (Horticulture) (2017)**  
Department of Horticulture, University of Agriculture Peshawar, Pakistan.
- **M.Sc (Hons) in Agriculture (Horticulture) (2<sup>nd</sup> Position)**  
Department of Horticulture, University of Agriculture Peshawar, Pakistan.  
(Session 2010-2011) CGPA: 3.80/4.00 (86.27 %)
- **B.Sc (Hons) in Agriculture (Horticulture)**  
Department of Horticulture, University of Agriculture Peshawar, Pakistan.  
(Session 2006-2009) CGPA: 3.64/4.00 (80.12 %)
- **F.Sc Pre-Engineering**  
Additional Math's (Private) (BISEP) Marks: 816/1100 (74.18%)  
Session 2006 Division/Grade: A (1<sup>st</sup> division)
- **F.Sc Pre-Medical**  
Government College Peshawar, Pakistan. (BISEP) Marks: 820/1100 (74.56%)  
Session 2004-05. Division/Grade: A (1<sup>st</sup> division)
- **S.S.C (Science)**  
University Public School Peshawar, Pakistan. (BISEP) Marks: 682/850 (80.23%)  
Session 2003. Division/Grade: A+ (1<sup>st</sup> division)

## **Research Work**

**Research (Ph.D):** Influence of fruit thinning intensity, calcium and gibberellic acid application on fruit yield and quality of peach

**Research (M.Sc):** Influence of Humic acid on growth and bulb production of onion cultivars at Mardan”

**Research (B.Sc):** Lawn maintenance and Tree distribution in Hayatabad Township (Phase IV, V, VI, VII)

## **Relevant Work Experience**

**1. Assistant Professor (TTS)** at the “**Department of Agriculture , Hazara University Mansehra**” (7<sup>th</sup> February, 2023 till Date)

**Responsibilities:** Teaching and Research

- Teaching various Horticulture subjects to postgraduate level students.
- Supervise and Assist students in their research activities.

**2. Lecturer (BPS-18)** on contract basis, at the "**Department of Horticulture, University of Agriculture Peshawar**" (1<sup>st</sup> February, 2012 to 6<sup>th</sup> February 2023).

**Responsibilities:** Teaching and Research

- Teaching various Horticulture subjects to postgraduate level students.
- Supervise and Assist students in their research activities.

**3. Horticulturist (BPS-17)**, at Pakistan Academy for Rural Development (PARAD) Peshawar, Under National Internship Program (NIP) from 05-07-2010 to 30-04-2011

**4. Six Months Internship** at "**Peshawar Development Authority (PDA)**" Hayatabad Peshawar Pakistan (2009).

## **Consultancy:**

- Agriculture consultant (Expert) in Hujra Organization, Peshawar-Pakistan

## **Students produced:**

M.Sc (Hons): (10)

B.Sc (Hons): (50)

## **Awards/Honors/Recognitions**

- 2nd Position in Horticulture Department in M.Sc (Hons) during the Session 2010-2011
- As a **JUDGE** for the Chrysanthemum Flower Show organized by Cantonment Board Peshawar for two consecutive years 2011 and 2012.

## Lectures Delivered

1. Delivered a lecture on **“Managing Strategies for Value Addition in Fruits and Vegetables”** in a five days training course organized by Pakistan Academy for Rural Development, Peshawar held on 03<sup>rd</sup> October, 2017

## Conferences

1. Organized 3 days international Conference on **“Innovations in Biotechnology and Genetic Engineering”** organized by Department of Biotechnology and Genetic Engineering, Hazara University Mansehra, Pakistan (November 1-3, 2023)
2. Participated in 5 days international Conference on **“Sustainable Agriculture and Food Security”** Organized by Agricultural University Teacher’s Association (AUTA), The University of Agriculture Peshawar-Pakistan (27<sup>th</sup>-31<sup>st</sup> August, 2023)
3. Organized a two days national conference on **“Olive production in Pakistan – A Holistic Approach”** sponsored by Department of Agriculture, Hazara University Mansehra and Promotion of olive cultivation on commercial scale in Pakistan –II, PSDP, POD, Pakistan (June 14-15, 2023)
4. Organized a three days international conference on **“Food Security through sustainable agricultural strategies in the current climate change scenario”** sponsored by Department of Plant Protection, The University of Agriculture Peshawar (March 08-10, 2023)
5. Participated in a three days international conference on **“Biofortification of staple food crops”** sponsored by The University of Agriculture Peshawar and Higher Education Commission (HEC) of Pakistan ( September 24-26<sup>th</sup>, 2018)
6. Participated in a two days national conference on **“Climate Smart Agriculture and Crop Modeling”** organized by Department of Agronomy, The University of Agriculture Peshawar (April 18-19<sup>th</sup>, 2018)
7. Participated in two days International conference on **“Innovations in Agriculture”** sponsored by The University of Agriculture, Peshawar and Pakistan Science Foundation, Islamabad held in The University of Agriculture Peshawar (28-29<sup>th</sup> March, 2017)
8. Attended three days international conference on **“Climatic Change: A Challenge for Agriculturists”** organized by The University of Agriculture, Peshawar under HEC sponsored project “International Linkages of Pakistani Universities with Foreign Universities” at The University of Agriculture, Peshawar (28-30<sup>th</sup> May, 2012)

## Trainings/Workshops/Seminars/Webinar

1. Organized a one day National Training Workshop on **“Kitchen Gardening”** Organized and Sponsored by Society of Horticulture, Department of Agriculture and District Youth Office, Mansehra (January 11, 2024)
2. Delivered and Organized a one day National Webinar on **“Modren Techniques to control Postharvest losses”** Organized by the Society of Horticulture, Department of Agriculture, Hazara University Mansehra, Mehsehra-Pakistan (December 06, 2023)
3. Organized a one day training Workshop on **“Current Trends in Landscape Technology”** organized by Department of Horticulture, The University of Haripur, Haripur-Pakistan (November 23, 2023)

4. Delivered 3 days Training on **“Value Addition of Walnut”** to Farmers of Orakzai Agency organized by Hujra Organization, Peshawar-Pakistan (December, 2022)
5. Delivered 2 days Training on **“Post-harvest Management of Potato”** to Farmers of Orakzai Agency organized by Hujra Organization, Peshawar-Pakistan (December, 2022)
6. Delivered 2 days Training on **“Pre harvest Management of Potato”** to Farmers of Orakzai Agency organized by Hujra Organization, Peshawar-Pakistan (December, 2022)
7. Delivered 2 days Training on **“Integrated Nutrient Management of Potato and Walnut”** to Farmers of Khyber and Orakzai Agency organized by Hujra Organization, Peshawar-Pakistan (November, 2022)
8. Delivered 4 days Training on **“Walnut Harvesting”** to Farmers of Khyber and Orakzai Agency organized by Hujra Organization, Peshawar-Pakistan (29-30<sup>th</sup> May and 4-5<sup>th</sup> June, 2022)
9. Delivered 4 days Training on **“Postharvest Management of Walnut”** to Farmers of Khyber and Orakzai Agency organized by Hujra Organization, Peshawar-Pakistan (30-31<sup>st</sup> May and 6-7<sup>th</sup> June, 2022)
10. Participation in a one day workshop on **“Introduction to Plant Tissue Culture”** organized by Breeding and Genetics Society of Pakistan, Department of Plant Breeding and Genetics, The University of Agriculture Peshawar (2018)
11. Participated in one day national workshop on **“Data Presentation and Interpretation for Effective Publication”** Organized by Abdul Wali Khan University, Mardan and Pakistan Society of Scientific Research (March 20<sup>th</sup>, 2018)
12. Participated two days training workshop on **“How to Write a Worth Publishing Research Paper”** Jointly organized by The University of Agriculture, Peshawar and PASTIC-PSF, Islamabad at The University of Agriculture Peshawar (18-19<sup>th</sup> October, 2017)
13. Participated in two days training workshop on Research Tools and Techniques: **“SPSS & Research Methodology”** Organized by PASTIC-PSF, Islamabad at The University of Agriculture Peshawar (02-03<sup>rd</sup> March, 2017)
14. Participated in one day Workshop on **“Intellectual Properties Rights (Drafting and Filing of Patent Applications)”** organized by PASTIC-PSF, Islamabad at The University of Agriculture Peshawar, Pakistan (16<sup>th</sup> December, 2016)
15. Attended one day Seminar on **“Organic Farming-Clean Food”** jointly organized by The University of Agriculture, Peshawar and Sadiq Poultry (Pvt) Limited at The University of Agriculture Peshawar (26<sup>th</sup> December, 2016)
16. Attended 2 days training on **“Drying fruits and vegetables through solar dryers”** organized by Agricultural Research Institute (ARI) Tarnab (2015).

17. Successfully conducted and completed training on “**Kitchen Gardening**” to the Farmers of Hangu organized ACF international Pakistan (11-12<sup>th</sup> August, 2014)
18. Attended two day training on “**Improved Agricultural Practices for Potato Farmers of Wana-South Waziristan Agency**” for the farmers of WANA Waziristan Organized by Department of Horticulture, The University of Agriculture Peshawar (22-23 March 2014).
19. Attended a one day training on “**Data Analysis Techniques for Crop, Animal and Social Sciences**” organized by Agriculture University Teaching Association, The University of Agriculture Peshawar (06 February, 2014).
20. Attended a one day training on “**Writing a Scientific Research Publication for Agricultural Sciences**” organized by Director Advanced Studies and Research, The University of Agriculture Peshawar (14<sup>th</sup> May, 2014).
21. Attended a Training on “**Skill Builder Level-I**” organized by NJI life Pakistan. (January, 2010)

### Books/Book Chapters

1. Murad, M., A. Basit, A. Wahab, W. Li, **S.T. Shah** and H.I. Mohamed. 2024. Response mechanism of plant stresses to secondary metabolites production. In Abd-Elsalam *et al.* (eds.), *Nanobiotechnology for Plant Protection, Fungal Secondary Metabolites*. Elsevier Netherlands publishers. Pp. 469-492. <https://doi.org/10.1016/B978-0-323-95241-5.09989-5>
2. **Shah, S.T.** I. Ullah, A. Basit, M. Sajid, M. Arif and H.I. Mohamad. 2022. Mulching is a Mechanism to Reduce Environmental Stresses in Plants. In K. Akhtar *et al.* (eds.), *Mulching in Agroecosystems*. Springer Nature Singapore Pte Ltd. Pp. 353-376. [https://doi.org/10.1007/978-981-19-6410-7\\_20](https://doi.org/10.1007/978-981-19-6410-7_20)
3. Ullah, I., **S.T. Shah**, A. Basit, M. Sajid, M. Arif, N. Ahmad and F. Noor. 2022. Mulching: A New Concept for Climate Smart Agriculture. In K. Akhtar *et al.* (eds.), *Mulching in Agroecosystems*. Springer Nature Singapore Pte Ltd. Pp. 289-313. [https://doi.org/10.1007/978-981-19-6410-7\\_17](https://doi.org/10.1007/978-981-19-6410-7_17)
4. **Shah, S.T.**, A. Basit, M. Sajid and H.I. Mohamed. 2021. Microorganism: A potent biological tool to combat insects and herbivores In book entitled “*Plant growth promoting microorganisms for sustainable biotic and abiotic stress management*”. Mohamed *et al.* (eds). Springer nature Publisher, Switserland AG Gewerbstrasse 11, 6330 Chan Switz. Pp: 505-555
5. **Shah, S.T.**, A. Basit, I. Ullah and H.I. Mohamed. 2021. Cyanobacteria and algae as biocontrol agents against fungal and bacterial plant pathogens. In book entitled “*Plant growth promoting microorganisms for sustainable biotic and abiotic stress management*”. Mohamed *et al.* (eds). Springer nature Publisher, Switserland AG Gewerbstrasse 11, 6330 Chan Switz. Pp: 1-23.
6. Basit, A., **S.T. Shah** and I. Ullah, I. Ullah and H.I. Mohamed. 2021. Microbial Bioactive Compounds produced by Endophytes (Bacteria and Fungi) and their Uses in Plant Health. In book entitled “*Plant growth promoting microorganisms for sustainable biotic and abiotic stress management*”.

- Mohamed et al. (eds). Springer nature Publisher, Switerland AG Gewerbstrasse 11, 6330 Chan Switz. Pp: 187-225
7. Basit, A., **S.T. Shah**, S.T. Muntha, H.I. Mohamed. 2021. Plant growth promoting Rhizobacteria (PGPR) as biocontrol agents against viral protection. In book entitled “*Plant growth promoting microorganisms for sustainable biotic and abiotic stress management*”. Mohamed et al. (eds). Springer nature Publisher, Switerland AG Gewerbstrasse 11, 6330 Chan Switz. Pp: 285-318.
  8. Ahmad, M., M. A. Khan, M. Bibi, Z. Ullah and **S.T. Shah**. 2020. Mobile Apps for Human Nutrition: A Review. In S. Umair (Ed.), *Mobile Devices and Smart Gadgets in Medical Sciences* (Pp. 121-147). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-2521-0.ch007

## Research Publications 2024:

**Total Impact Factor: 75.36**

1. Hassan, M.U., **S.T. Shah**, A. Basit, W.M. Hikal, M.A. Khan, W. Khan, K.G. Tkachenko, F. Brini and H.A.H. Said-Al Ahl. 2024 Improving Wheat Yield with Zeolite and Tillage Practices under Rain-Fed Conditions. *Land*. 13: 1248. <https://doi.org/10.3390/land13081248> (**Impact Factor: 3.2**)
2. Khan, Z., B. Khan, **S.T. Shah**, J. Iqbal, A. Basit, M.S. Khan, W. Iqbal, M.F. Elsadek, A. Jamal, M.A. Ali and Domenico Prisa. 2024. Preserving Nature’s Treasure: A Journey into the In Vitro Conservation and Micropropagation of the Endangered Medicinal Marvel—*Podophyllum hexandrum* Royle. *Horticulturae*. 10: 809. <https://doi.org/10.3390/horticulturae10080809>. (**Impact Factor: 3.1**)
3. Rashid, M.U., S.J. Shah, S. Attacha, L. Khan, J. Saeed, **S.T. Shah** and Heba I. Mohamed. 2024. Green Synthesis and Characterization of Zinc Oxide Nanoparticles Using *Citrus limetta* Peels Extract and Their Antibacterial Activity Against Brown and Soft Rot Pathogens and Antioxidant Potential. *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-023-02389-w>. (**Impact Factor: 3.2**)
4. Sajid, M., A. Basit, **S.T. Shah**, A. Khan, I. Ullah, M. Bilal, M.S. Khan and W. Khan. 2024. Enhancing the Quality and Fruit Yield of Sweet Cherry (*Prunus Avium*) Cultivars by Foliar Application of Boron. *App. Fruit Sci*. <https://doi.org/10.1007/s10341-023-01023-2>. (**Impact Factor: 1.3**)
5. Khan, A., **S.T. Shah**, A. Basit, H.I. Mohamed and Y. Li. 2024. Mitogen-Activated Protein Kinase: A Potent Signaling Protein that Combats Biotic and Abiotic Stress in Plants. *J. Plant Growth Reg.* <https://doi.org/10.1007/s00344-024-11239-5>. (**Impact Factor: 4.8**)
6. Khan, Z., B. Khan, J. Iqbal, M. Khan, J. Saeed, **S.T. Shah**, Hina, S. Abid. 2024. Elicitor-mediated augmentation of podophyllotoxin biosynthesis in *Podophyllum hexandrum* Royle: unveiling a remarkable anticancer potential. *J. Popul. Ther.*

Clin. Pharmacol. 31(05): 1067-1080. <http://DOI: 10.53555/jptcp.v31i5.6285>.  
(Impact Factor: 1.5)

## 2023:

7. El-Beltagi., H.S., A. Khan, **S.T. Shah**, A. Basit, M. Sajid, M. Hanif, H.I. Mohamed. 2023. Improvement of postharvest quality, secondary metabolites, antioxidant activity and quality attributes of *Prunus persica* L. subjected to solar drying and slice thickness. Saudi J. Biol. Sci. <https://doi.org/10.1016/j.sjbs.2023.103866>. (Impact Factor: 4.4)
8. El-Beltagi, H.S., **S.T. Shah**, H.I. Mohamed, N. Alam, M. Sajid, A. Khan, A. Basit. 2023 Physiological response, phytochemicals, antioxidant, and enzymatic activity of date palm (*Phoenix dactylifera* L.) cultivated under different storage time, harvesting Stages, and temperatures. Saudi J. Biol. Sci. 30: 103818. (Impact Factor: 4.4)
9. Fatima F., A. Basit, M. Younas, **S.T. Shah**, M. Sajid, I. Aziz and H.I. Mohamed. 2023. Trends in Potassium Permanganate (Ethylene Absorbent) Management Strategies: Towards Mitigating Postharvest Losses and Quality of Mango (*Mangifera indica* L) Fruit. Food Bioprocess Technol. <https://doi.org/10.1007/s11947-023-03047-8> (Impact Factor: 5.83)
10. Alam, M., S. Ali, S.A. Jadoon, M. Ahmad, A. Muhammad, **S.T. Shah**, I. Ahmad, A. Rab, Z. Hussain and Liaqat Ali. 2023. Effect of chitosan on Post-harvest shelf of persimmon (*Diospyros kaki* L.) Acta Sci. Pol. Hortorum Cultus. 22(2): 27-43. (Impact Factor: 0.7)
11. Pervaiz, S., H. Gul, M. Rauf, H.I. Mohamed, K.U. Rehman, H. Wasila, I. Ahmad, **S.T. Shah**, A. Basit, M. Ahmad, S. Akbar, S. Fahad. 2023. Screening of *Linum usitatissimum* lines against salinity stress using growth attributes, biochemical parameters and ionomics as tools. Gesunde Pflanzen. <https://doi.org/10.1007/s10343-023-00880-x>. (Impact Factor: 3.1)
12. **Shah, S.T.**, A. Basit, H.I. Mohamed, I. Ullah, M. Sajid and A. Sohrab. 2023. Use of mulches in various tillage conditions reduces the greenhouse gas emission-an overview. Gesunde Pflanzen. 75:455–477 <https://doi.org/10.1007/s10343-022-00719-x>. (Impact Factor: 3.1)
13. Sajid, M., **S.T. Shah**, A. Basit, A. Ahmed, I. Ullah, S.J. Shah, F. Khan, H.I. Mohamed. 2023. Enhancement of yield, essential oils, and active ingredients of turmeric (*Curcuma longa* L.) by application of organic manures (Farmyard and Poultry Manure). Gesunde Pflanzen. 75:525–538 <https://doi.org/10.1007/s10343-022-00717-z>. (Impact Factor: 3.1)
14. Ullah, I., M.D. Toor, A. Basit, H.I. Mohamed, M. Gamal, N.A. Tanveer, **S.T. Shah**. 2023. Nanotechnology: an Integrated Approach Towards Agriculture Production and Environmental Stress Tolerance in Plants. Water Air Soil Pollut. 234: 666. <https://doi.org/10.1007/s11270-023-06675-0>. (Impact Factor: 2.98)

2022

15. Khaliq, A., W-F. Li, S. Ali, **S.T. Shah**, Z-H. Ma, J. Mao, Y. Niaz, B-H. Chen, I.U. Haq, R. Al-Yahyai, M.A.A. Ahmed, A.A. Al-Ghamdi, M.S. Elshikh and A.T.K. Zuan. 2022. Thin layer drying kinetics and quality dynamics of persimmon (*Diospyros kaki*) treated with preservatives and solar dried under different temperatures. Plos one. 17(3): e0265111 (**Impact Factor: 3.75**)
16. Ullah, I., E.A.R. Kamel, **S.T. Shah**, A. Basit, H.I. Mohamed and M. Sajid. 2022. Application of RNAi technology: a novel approach to navigate abiotic Stresses. Mol. Biol. Rep. 49:10975–10993. <https://doi.org/10.1007/s11033-022-07871-7> (**Impact Factor: 2.32**)
17. Mukhtar, S., H.I.Mohamed, I.M. Qazi, A. Basit, H. Javed, **S.T. Shah**, A. Ibrahim, I. Aziz, F. Ali and Kaleemullah. 2022. Impact of pectin extracted from selected citrus fruit peel on overall quality of mango jam. Journal of Food Meas. Charact. 16: 5079 <https://doi.org/10.1007/s11694-022-01576-y>. (**Impact Factor: 2.08**)
18. Ahmed, A., M. Sajid, **S.T. Shah**, Q.S. Ali, M. Waleed, G. Saleem and Faizan Fida. 2022. Effect of Soaking Durations and Sowing Methods on Nursery Plant Production of Peach. Gesunde Pflanzen. 74:1011–1020 <https://doi.org/10.1007/s10343-022-00681-8>. (**Impact Factor: 3.1**)
19. Fatima, F., A. Basit, A. Ahmad, **S.T. Shah**, M. Sajid, F. Aman, H.I. Mohamed and A. Elhakem. 2022. Enhancement of the fruit quality and postharvest life expectancy of mango fruits (*Mangifera indica* L.) apply ecofriendly bio-coatings. Not. Bot. Horti Agrobot.Cluj-Napoca. 50(4): 12917. (**Impact Factor: 1.44**).
20. Bano, A.S., A.M. Khattak, A. Basit, M. Alam, **S.T. Shah**, N. Ahmad, S.A.Q. Gilani, I. Ullah, S. Anwer, H.I. Mohamed. 2022. Callus Induction, Proliferation, Enhanced Secondary Metabolites Production and Antioxidants Activity of *Salvia moorcroftiana* L. as Influenced by Combinations of Auxin, Cytokinin and Melatonin. Brazilian Arc. Bio. Technol. Vol.65: e22210200. <https://doi.org/10.1590/1678-4324-2022210200> (**Impact Factor: 0.71**).
21. El-Beltagi, H.S., I. Ullah, M. Sajid, A. Basit, W.F. Shehata, **S.T. Shah**, S.M. Alturki, A. Ullah, I. Aziz, F. Ali. 2022. Influence of maturity stages on postharvest physico-chemical properties of grapefruit (*Citrus paradise* var. ‘Shamber Tarnab) under different storage durations. Not. Bot. Horti. Agrobot. Cluj-Napoca. 50(1): 12620. (**Impact Factor: 1.44**)
22. El-Beltagi, H.S., I. Ahmad, A. Basit, W. F. Shehata, U. Hassan, **S.T. Shah**, B. Haleema, A. Jalal, R. Amin, M.A. Khalid, F. Noor and H.I. Mohamed. 2022. Ascorbic Acid Enhances Growth and Yield of Sweet Peppers (*Capsicum annum*) by Mitigating Salinity Stress. Gesunde Pflanzen. 74:423–433 <https://doi.org/10.1007/s10343-021-00619-6>. (**Impact Factor: 3.1**)



23. El-Beltagi, H.S., I. Ahmad, A. Basit, H.M.A. El-Lateef, M. Yasir, **S.T. Shah**, I. Ullah, M.E.M. Mohamed, I. Ali, F. Ali, S. Ali, I. Aziz, M. Kandeel, M.Z. Ikram. 2022. Effect of *Azospirillum* and *Azotobacter* Species on the Performance of Cherry Tomato under Different Salinity Levels. *Gesunde Pflanzen*. 74:487–499. <https://doi.org/10.1007/s10343-022-00625-2>. (**Impact Factor: 3.1**)
24. Ullah, I., M. Hanif, A. Basit, M.K. Khattak, **S.T. Shah**, A. Ullah, K. Lodhi, I. Haq, I. Ullah, M. Ahmad, I. Ali, F. Ali, H.I. Mohamed. 2022. Performance of two terms exponential model on the drying kinetics of solar dried tomatoes (*Lycopersicon esculentum* L.) treated with and without chemical preservative. *Egypt. J. Chem.* 65(3): 447 – 456

## 2021

25. Basit, A., N. Amin, **S. T. Shah** and I. Ahmad. 2021 Conservation of green belts, their management and ecological benefits: Assessment of business community participation. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-021-01890-3> (**Impact factor: 4.08**).
26. Basit, A., **S.T. Shah**, I. Ullah, S. Muntha, H.I. Mohamed. 2021. Microbe-assisted phytoremediation of environmental pollutants and energy recycling in sustainable agriculture. *Archives Microbiol.* <https://doi.org/10.1007/s00203-021-02576-0>. (**Impact Factor : 2.66**)
27. Gilani, S.A.Q., A. Basit, M. Sajid, **S.T. Shah**, I. Ullah and H.I. Mohamed. 2021 Gibberellic Acid and Boron Enhance Antioxidant Activity, Phenolic Content, and Yield Quality in *Pyrus Communis* L. *Gesunde Pflanzen* <https://doi.org/10.1007/s10343-021-00555-5>. (**Impact Factor : 3.1**)
28. Khalil, S.K., A. Basit, I. Ullah, M. Sajid, **S.T. Shah**, I. Ahmad, F. Wahid, Q.S. Ali, S. Ali, I.H. Khan, S.U. Din. 2021. Effect of Benzyl Amino Purine (BAP) and its Time of Application on the Dwarfism and Flower Production of Cut Carnation (*Dianthus Caryophyllus*). *Fresenius Environmental Bulletin*. 30 (09): 10474-10481. (**Impact Factor: 0.55**)
29. Rafiullah, F. Wahid, A. Basit, I. Ullah, M. Sajid, **S.T. Shah**, I. Ahmad, M. Muhammad, I. Ali, I.A. Khan, A. Ahmad and A.A. Shah. 2021. Vegetative Growth and Root Development of *Euonymus Japonica* Cuttings is Influenced by Various Concentrations of Indole Butyric Acid (IBA) and Transplantation Dates. *Ann. Russain Soc. Cell Biol.* 25(5): 948 – 959 (**Impact Factor : 0.11**)
30. Khan, N., A.M. Khattak, **S.T. Shah** and A. Iqbal. 2021. Influence of Humic Acid and Potassium on the Growth and Yield of Squash (*Praecitrullus fistulosus* L.). *J. Hort. Sci. Orn. Plants* 13 (3): 321-329.
31. Ahmad, I., A. Basit, N. Ara, F. Aman, **S.T. Shah**, I. Ullah, Y. Ali, N. Khan, N. Ahmad, I.A. Khan, M. Ahmad, Kaleemullah, I. Ali. 2021. Growth and Yield of *Solanum melongena* L. as influenced by foliar application of yeast extract with different time intervals. *Biosci. Res.* 18(2): 1301-1312.

32. Ullah, I., S.T. Shah, A. Basit, N. Ahmad, I. Ali, I.A. Khan, M.U. Khan, S. Zaman, K. Ullah, Hassnain, F. Sattar, A. Ahmad. 2021. Influence of Citric acid (C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>) application on postharvest vase life of Tuberose (*Polianthes Tuberosa* L.). Biosci. Res. 18(3): 1958-1964.
33. Shah, S.T., A. Basit, I. Ullah, M. Sajid, I. Ahmad, I. Ahmad, M.A. Khalid, Sanauallah, I. Ullah and B. Muhammad. 2021. Influence of edible coatings and storage duration on post-harvest performance of plum. Pure App. Biol. 10(1): 81-96.
34. Khattak, H., I. Ahmad, A. Basit, I. Ullah, S.T. Shah, H. Wasila, I. Ullah, I. Ahmad and N. Ahmad. 2021. Investigation of gardening patterns effects on field performance of various *Cucumis sativus* L. genotypes. Pak. J. Agri. Res. 34(2): 372-380.
35. Ali, S., A. Basit, A.M. Khattak, S.T. Shah, I. Ullah, N.A. Khan, I. Ahmad, K. Rauf, S. Khan, I. Ullah and I. Ahmad. 2021. Managing the growth and flower production of zinnia (*Zinnia elegans*) through Benzyle Amino Purine (BAP) application and pinching. Pak. J. Agri. Res. 34(1): 29-40.
36. Basit, A., A. Zahid, S.T. Shah, I. Ullah, S. Ullah, M.K. Nawaz, M.A. Khalid, I. Ullah, F. Ali and S. Ali. 2021. Effect of Sowing Methods and Picking Intervals on Fresh Yield and Seed Production of Okra (*Abelmoschus Esculentus* L.). Pak. J. Weed Sci. Res., 27 (3):407- 418

## 2020

37. Ahmad, I., M. Hamid, S. Yousaf, S.T. Shah and M.O. Ahmad. 2020. Optimizing Pre-trained Convolutional Neural Networks for Tomato Leaf Disease Detection. Complexity. Volume 2020 Article ID 8812019: 1-6. <https://doi.org/10.1155/2020/8812019> (Impact Factor: 2.3)
38. Haleema, B., A. Rab, S.A. Hussain, M. Sajid, M. Arif, S.T. Shah, I. Ullah, G. Miraj, Humaira, A. Basit. 2020. Influence of calcium concentrations and sources on the fruit quality of tomato (*Lycopersicon esculentum* Mill) at different storage conditions. Fresenius Environ. Bulletin. 29(03): 1866-1877 (Impact Factor: 0.554)
39. Sajid, M., Ahsanullah, A. Basit, I. Ullah, S.T. Shah, B. Haleema, K. Nawab, I. Ahmad, N. Ahmad, A. Khan and Murad Muhammad. 2020. Screening of citrus rootstocks for salinity tolerance based on initial growth attributes and leaves proline content. Elementary Edu. Online. 19(4): 3128-3140 (Impact Factor: 0.44)
40. Ullah, N., A. Basit, I. Ahmad, I. Ullah, S.T. Shah, H.I. Mohamed and S. Javed. 2020. Mitigation the adverse effect of salinity stress on the performance of the tomato crop by exogenous application of chitosan. Bull. Nat. Res. Centre. (2020) 44:181. <https://doi.org/10.1186/s42269-020-00435-4>
41. Sajid, M., A. Basit, Z. Ullah, S.T. Shah, I. Ullah1, H.I. Mohamed and I. Ullah. 2020. Chitosan-based foliar application modulated the yield and biochemical

attributes of peach (*Prunus persica* L.) cv. Early Grand. Bulletin Nat. Res. Centre. 44: 150.

42. Ahmad, I., A. Basit, **S.T. Shah**, I. Ullah, M.A. Khalid, I. Ullah, I. Ahmad, N. Khan, S. Aman, M. Abbas, O. Khan, N. Ain and M. Hanif. 2020. Quality traits and storability life of peach (*Prunus persica* L.) Fruit as effected by hot water dipping Treatment. Biosci. Res. 17(4): 4021-4033
43. Zeb, S., M. Sajid, **S.T. Shah**, M. Ali, S. Ali, Z. Nawaz, K. Rauf, A. Khan, H. Shah, S.A.A Shah and R. Riaz. 2020. Influence of post-harvest application of chitosan on physico-chemical changes of apple fruit during storage. Pure App Biol. 9(4): 2554-2562
44. Basit, A., Hassnain, M. Alam, I. Ullah, **S.T. Shah**, S.A. Zuhair and I. Ullah. 2020 Quality indices of tomato plant as affected by water stress conditions and chitosan application. Pure Appl. Biol. 9(2): 1364-1375. <http://dx.doi.org/10.19045/bspab.2020.90143>
45. Sajid, M., I. Ullah, A. Rab, **S.T. Shah**, F. Wahid, N. Ahmad, I. Ahmad, A. Ali, A. Basit, F. Bibi and M. Ahmad. 2020. Foliar application of calcium improves growth, yield and quality of tomato cultivars. Pure Appl. Biol. 9(1): 10-19

## 2019

46. Ali, B., Raziuddin, I. Ullah, Farhatullah, S. Khan, **S.T. Shah**, M. Ali, M. A. Khan and F. Khan. 2019. Assessment of genetic variability, genetic advance and correlation coefficient in quantitative traits of field pea (*Pisum sativum* L.) genotypes. BioSci. Res. 16(4): 3769-3780.
47. **Shah, S.T.**, M. Sajid, N.U. Khan, A. Rab, N. Amin, M. Arif, B. Haleema, S. Saeed. 2019. Peach antioxidant and phenolic activities influenced by the application of 1-methylcyclopropene (1-MCP) at post-harvest. Acta Sci. Pol. Hortorum Cultus, 18(2): 71–85 (**Impact factor: 0.71**)
48. Basit, A., S. Ayaz, A. Rab, I. Ullah, **S.T. Shah**, I. Ahmad, I. Ullah and M.A. Khalid. 2019. Effect of stevia (*Stevia Rebaudiana* L.) leaf extract on the quality and shelf life of lemon (*Citrus limon* L.). Pure Appl. Biol. 8(2): 1456-1468
49. Basit, A., I. Ullah, **S.T. Shah**, I. Ullah, N. Alam, S.A.Q. Gilani. 2019. Effect of media amendments on invivo root and shoot organogenesis of stevia (*Stevia rebaudiana* L.). Int. J. Biosci. 14:(4)55-63

## 2018

50. Sajid, M., A. Rab, I.A. Khan, I. Jan, N. Amin, A. Mateen, H. Usman, M. Alam, **S.T. Shah**. 2018. The pre-harvest foliar application influenced the flower quality and vase life of chrysanthemum cultivars. Hort. Int. J.2(4):145–152
51. Haq F., M. Sajid, M.N. Khan, I.H. Khan, **S.T. Shah** and Dawood. 2018. Influence of Salicylic acid and storage durations on sensory evaluation of sweet orange cv. Blood red. Pure Appl. Biol. <http://dx.doi.org/10.19045/bspab.2018.700139>

**2017**

52. Shah, S.T. and M. Sajid. 2017. Influence of calcium sources and concentrations on the quality and storage performance of peach. *Sarhad J. Agri.* 33(4): 532-539.
53. Rab, A., M. Sajid, S.T. Shah and N. Ahmad. 2017. Foliar application of salicylic acid retains quality of apricot fruit during storage and marketing. *Sci. Int. (Lahore)*, 29(6): 1245-1251
54. Bacha, S.A.S., S. Ali, I. Naeem, S.T. Shah, M. Junaid, J. Iqbal, S.H.A Shah and M. A. Khan. 2017. Impact of different plant spacing and nitrogen levels on the growth and yield of cauliflower (*Brassica oleracea*). *Sci. Int. (Lahore)*. 29(2): 499-502
55. Ullah, I., M. Sajid, S.T. Shah, S. Khan, Z. Iqbal, F. Wahid, E. Hassan, S.H.A. Shah and R. Khan. 2017. Influence of humic acid on growth and yield of strawberry cv. Chandler. *Pure App Biol.* 6(4): 1171-1176
56. Ahmad, T., S.T. Shah, F. Ullah, F. Ghafoor and U. Anwar. 2017. Effect of organic fertilizer on growth and yield of coriander. *Int. J. Agri and Env. Res.*, 3(1): 116-120.
57. Akbar, J., S.T. Shah, M.N. Khan, A. Naeem. 2017. Role of facilities available and un-available in attracting of tourist in Swat valley Pakistan. *J. Landscape Ecol.* 10(1): 5-19.
58. Sajid, M., I. Hussain, A. Rab, S.M. Khan, Z. Aman, S.T. Shah, N. Ahmad and Q.S. Ali. 2017. Sulphate of potash and dipping time influence the seed germination and growth of pecan nuts. *Pure Appl. Biol.* 6(1): 310-316.

**2016**

59. Haq, S.U., S.T. Shah, N. Khan, A. Khan, A. Naeem, M. Ali, G. Gul, S. Rahman, M. Afzaal, S. Ullah and S. Rawan. 2016. Growth and flower quality production of marigold (*Tagetes erecta* L.) response to phosphorous fertilization. *Pure Appl. Biol.*, 5(4): 957-962.
60. Rab, A., F. Ahmad, M. Ahmad and S.T. Shah. 2016. Maturity stages and packaging perforations affect the quality of plum in cold storage. *J. Anim. Plant Sci.* 26(6): 1750-1757 (**Impact Factor: 0.481**)
61. Shah, S.T., F. Ghafoor, N. Khan, M. Sajid, N. Amin, Z. Shah, S. Bibi, T. Ahmad and F. Haq. 2016. Organic fertilizers affect the growth attributes of weeds and swiss chard. *Pak. J. Weed Sci. Res.*, 22(3): 463-470
62. Shah, S.T., N. Khan, M. Sajid, N. Amin, A. Rauf, S. Bibi, B. Haleema and F. Haq. 2016. Weed control methods influence the growth attributes of weeds and radish (*Raphanus sativus* L.) under semiarid condition. *Pak. J. Weed Sci. Res.*, 22(4): 567-573.

63. Sajid, M., O. Ullah, M.A. Khan, A. Rab, A. Khan, F. Wahid, **S.T. Shah**, N. Ahmad. 2016. Phytohormones influences the micropropagation of *Stevia rebaudiana bertonii* through callogenesis. Adv. Food Sci. 38(4): 139-146. (Impact Factor: 0.36)
64. Sajid, M., A. Hussain, A. Rab, **S.T. Shah** and I. Jan. 2016. Influence of zinc as soil and foliar application on growth and yield of okra (*Abelmoschus esculentus* L.). Int. J. Agri. Environ. Res. 2(2): 140-145
65. **Shah, S.T.**, S. Rahman, N. Khan, M. Sajid, A. Rab, N. Amin, S. Haq, S. Rawan, S. Faisal and R. Ahmad. 2016. Viability of meyer lemon over sour orange rootstock. Pure Appl. Biol. 5(2): 326-331
66. **Shah, S.T.**, S. Ullah, N. Khan, M. Sajid, A. Rab, N. Amin, A. Iqbal, A. Naeem, M. Iqbal, S. Haq, S. Rahman, F.A. Shah and S. Rawan. 2016. Effect of zinc as a foliar spray on growth and flower production of Marigold (*Tagetes erecta* L.). Pure Appl. Biol. 5(4): 738-743
67. Khan, N. **S.T. Shah**, M. Sajid, A. Rab, A. Iqbal, S. Haq, M. Iqbal, S. Rahman, R. Ahmad, W. Ali and S. Rawan. 2016. Propagating media affects mango seed germination at different depths. Pure Appl. Biol., 5(3): 392-398.

## **2015**

68. Amin, N., M. Sajid, M. Sajid, M.M. Qayyum, **S.T. Shah**, F. Wahid, R.S. Hashmi. 2015. Response of gerbera (*Gerbera jamesonii*) to different levels of phosphorus and potassium. Int. J. Biosci. 7(4): 1-11.
69. Azeem, K., S. Shah, N. Ahmad, **S.T. Shah**, F. Khan, Y. Arafat, F. Naz, I. Azeem and M. Ilyas. 2015. Physiological indices, biomass and economic yield of maize influenced by humic acid and nitrogen levels. Russian Agri. Sci. 41(2-3):115-119.
70. Imran, A.A Khan, Inamullah, H. Zada, F. Ahmad, **S.T. Shah**, A. Usman and Irfanullah. 2015. Yield and yield attributes of rapeseed cultivars as influence by sulfur level under Swat valley conditions. Pure App. Biol. 4(3): 296-301.
71. Jan, I., M. Sajid, A. Rab, A. Iqbal, O. Khan, Y. Jamal, N. Ahmad, A. Ali, M. Shakoor and **S.T. Shah**. 2015. Effect of various concentrations of indole butyric acid (IBA) on olive cuttings. Mitteilungen Klosterneuburg J. 65: 49-55. (**Impact Factor: 0.106**).

## **2014**

72. Sajid, M., M. Mukhtiar, A. Rab, **S.T. Shah** and I. Jan. 2014. Influence of calcium chloride (CaCl<sub>2</sub>) on fruit quality of pear (*Pyrus communis*) cv. Le Conte during storage. Pak. J. Agri. Sci., 51(1): 113-121. (Impact Factor: 0.74)

## **2013**

73. Sajid, M., I. Hussain, I.A. Khan, A. Rab, I. Jan, F. Wahid and **S.T. Shah**. 2013. Influence of organic mulches on growth and yield components of pea's cultivars. *Greener J. Agri. Sci.* 3(8): 652-657. (**Impact Factor: 0.709**)

## **2012**

74. Sajid, M., M. Pervaiz, A. Rab, I. Jan, I. Haq, F. Wahid, **S.T. Shah** and I. Ali. 2012. Response of plane tree (*Platanus orientalis*) to cuttings and planting dates. *J. of Animal & Plant Sci.*, 22(2): 420-424. (**Impact Factor: 0.481**)
75. Sajid M., A. Rab, I. Jan, I. Haq, **S.T. Shah**, A. Iqbal, M. Zamin and M. Shakoor. 2012. Pre-harvest Treatment of Zn & B Affects the Fruit Quality and Storability of Sweet Orange. *J. Agric. Sci. & Technol. B.*, 2: 1224-1233. (Impact Factor: 0.5)
76. **Shah, S.T.**, M. Sajid, R. Alam, A. Rab, A. Mateen, I. Jan, A. Ali and F. Wahid. 2012. Comparative study of onion cultivars at Mardan, Khyber Pakhtunkhwa - Pakistan. *Sarhad J. Agric.* 28(3):399-402.
77. Jan, I., A. Rab, M. Sajid, A. Ali and **S.T. Shah**. 2012. Response of apple cultivars to different storage durations. *Sarhad J. Agric.*, 28(2): 219-225.
78. Sajid, M., A. Rab, **S. T. Shah**, I. Jan, I. Haq, B. Haleema, M. Zamin, R. Alam and H. Zada. 2012. Humic acids affect the bulb production of onion cultivars. *Afri. J. Microbiol. Res.*, 6(28): 5769-5776. (Impact Factor: 0.533)
79. Khan, M. K., M. Sajid, A. Rab, I. Jan, H. Zada, M. Zamin, I. Haq, A. Zaman, **S. T. Shah** and A. Rehman. 2012. Influence of nitrogen and phosphorus on flower and corm production of freesia. *Afri. J. Biotech.*, 11(56): 11936-11942.
80. Bibi, B., M. Sajid, A. Rab, **S. T. Shah**, N. Ali, I. Jan, I. Haq, F. Wahid, B. Haleema and I. Ali. 2012. Effect of partial shade on growth and yield of tomato cultivars. *Global J. of Biol. Agri. & Health Sci.*, 1(1): 22-26.

## **Reviewer for National and International Journals**

- Gesunde Pflanzen
- Agronomy Research
- Notulae Botanicae Horti Agrobotanici Cluj-Napoca.
- Sarhad Journal of Agriculture
- Biosciences Research
- Pure and Applied Biology
- Pakistan Journal of Agriculture Research
- Journal of Pure and Applied Agriculture

## **Languages:**

- Urdu
- English
- Pashto

