

Appendix-II

List of Research papers published during reported period

Research Papers published in National Journal

- Aiswarya, S. and Swaminathan, B. (2023). Direction and determinants of wheat exports from India: an application of gravity model. *Humanities and Social Science Studies*, 12 (7): 115-123.
- Akola, R.; Sapre, S. S.; Talaviya, J. R.; Lakhani, Kundan K. and Parakhia, M. V. (2024). Effect of agricultural waste on nutritional composition of oyster mushroom (*Pleurotus ostreatus*). *Environment Conservation Journal*, 25(1), 74–83
- Babariya, V. D.; Kelaiya, D. S.; Vyas U. M. and Davariya, P. J. (2023). Evaluation of water soluble soil amendments against *Sclerotium rolfsii* causing stem and pod rot of groundnut under *in vitro* condition. *The Pharma Innovation Journal*, 12(6): 2594-2596.
- Bariya, M. K.; Chandravadia, Kiran and Gami, Hansa (2023). Social empowerment of women through Self Help Groups. *Gujarat. J. Ext. Edu.*, 35 (1): pp: 104-108.
- Bariya, M. K.; Tiwari, N.; Vyas, J. N. and Chandravadiya, Kiran (2023). Impact of Self Help Groups on psychological empowerment of women. *J. Krishi Vigyan*, 11 (2): 176-181.
- Bhadarka, Chandni R.; Kanzaria, D. R.; Perna, Prachi; Karmur, N. N. and Patel, Shivani R. (2023). Influence of growth retardants on growth and flowering of papaya (*Carica papaya* L.) CV. GJP 1. *The Pharma Innovation Journal*, 12(7): 2681-2685.
- Bhaliya, C. M.; Kapadiya, H. J.; Chavda, J. G.; Kelaiya D. S. and Thanki R. B. (2023). Inoculation techniques for assessing pathogenicity of *Fusarium* spp and *M. phaseolina* on chickpea. *The Pharma Innovation Journal*, 12(6): 2594-2596.
- Bhopala, U. D.; Dhandhalya, M. G. and Parmar, H. B. (2023). Total factor productivity growth & changing cost structure of sugarcane in Gujarat, India. *Asian Journal of Agricultural Extension, Economics & Sociology*, 41 (12): 253-260.
- Bhopala, U. D.; Faldu, S. M. and Dhandhalya, M. G. (2023). Growth and instability analysis of sugar exports from India. *Asian Journal of Agricultural Extension, Economics & Sociology*, 41 (12): 153-159.
- Bhuva, S. S.; Dhamsaniya, N. K. and Marviya, G. V. (2023). Exploring quality assessment of peanut oil for encapsulation. *The Pharma Innovation*, 12(9): 888-891.
- Bhuva, S. S.; Dhamsaniya, N. K. and Marviya, G. V. (2024). Optimization of Ultrasound-Assisted microwave Encapsulation of peanut oil in protein-polysaccharide complex. *Food Technology and Biotechnology*, 62 (1): 78-88.
- Chandravadia, Kiran and Bariya, M. K. (2023). Training needs of dairy farm women and their multiple regression analysis toward animal husbandry practices. *J. Krishi Vigyan*, 11 (2): 176-181.
- Chovatiya, N. C.; Gajera, H. P.; Savaliya, D. D.; Hirpara, D. G. and Savani, K. R. (2023). Antioxidant enzymes influenced by nanoparticle treatments during fusarium wilt infection in castor (*Ricinus communis* L.). *Indian J. of Agril. Biochem.*, 36(2): 145-152.
- Dobariya, Kruti; Thumar B. V.; Varma, Anamika and Parsana J. S. (2023). Influence of integrated nutrient management and pinching on yield and quality of annual chrysanthemum. *The Pharma Innovation Journal*, 12(7): 489-494.
- Dobariya, Kruti; Thumar, B. V.; Varma, Anamika and Parsana, J. S. (2023). Effect of integrated nutrient management and pinching on growth and yield of annual chrysanthemum. *The Pharma Innovation Journal*, 12(7): 483-488.



- Durga Prasad K.; Javia, R. M.; Sharma, L. K. and Singh, S. P. (2023). Genetic diversity in chickpea (*Cicer arietinum* L.) genotypes amenable to mechanical harvesting. *Frontiers in Crop Improvement*, 11 (2): 128-131.
- Durga Prasad, K.; Javia, R. M.; Sharma, L. K. and Singh, S. P. (2023). Genetic variability, correlation and path analysis in chickpea (*Cicer arietinum* L.) for mechanical harvesting. *Frontiers in Crop Improvement*, 11 (1): 17-20.
- Ginoya, A. V.; Patel, J. B. and Delvadiya, I. R. (2024). A comprehensive approach to improve brinjal hybrid seed yield through emasculation, timing, and crossing ratio. *Electronic Journal of Plant Breeding*, 15(1): 209–216.
- Gojiya, D. K.; Gohil, V. N.; Dabhi, M. N. and Dhamsaniya, N. K. (2023). Assessment of water absorption characteristics for improved sesame (*Sesamum indicum* L.) varieties during hydration. *Food Bioengineering*, 2(2), pp.175-183.
- Gondaliya, Rikshita R.; Polara, N. D.; Patel, Yukta J.; Makhmale, Sandip and Patel, Shivani R. (2023). Impact of integrated nutrient management on the growth and yield of sugar apple (*Annona squamosa* L.) cv. Sindhan. *The Pharma Innovation Journal*, 12(7): 3151-3154.
- Gorasiya, A. B.; Kulkarni, G. U. and Sharma L. K. (2023). Character association and path coefficient analysis for seed yield and yield contributing traits in sesame (*Sesamum indicum* L.). *Frontiers in Crop Improvement*, Vol 11: 262-266 (Special Issue-I).
- Hemlatha, B. and Chandegara, V. K. (2023). Study on packaging and storage of tender coconut water preservation by ultrasonication. *The Pharma Innovation Journal*, 12(10): 487-490.
- Hirpara, P.; Rank, H. D.; Patel, D. V.; Tiwari, M. K. and Parmar, H. V. (2023). The competing impacts of climate change on reductions of water quality parameters. *Journal of Soil and Water Conservation*, 22(3): 260-268.
- Jalu, Swati N.; Bariya, M. K. and Bindu Christian (2023). Adoption of recommended groundnut production technology by the groundnut growers. *Gujarat. J. Ext. Edu.* 35 (1): pp: 71-76.
- Jayswal, P. S.; Gontia, N. K.; Sondarva, K. N. and Patel, V. A. (2023). Site selection for rainwater harvesting using remote sensing, GIS and AHP. *International Journal of Plant & Soil Science*, 35: 1360-1378.
- Jayswal, P. S.; Sondarva, K. N. and Patel, V. A. (2023). Study on mobile applications for irrigation in agriculture field. *International Journal of Agricultural Sciences*, 19: 291-295.
- Joshi, N. U.; Dabhi M. N. and Rathod P. J. (2023). A review on factors affecting dehusking operation of different agricultural products. *The Pharma Innovation*, SP-12(11): 478-482.
- Jotava, K. S.; Kanzaria, D. R. and Mishra, S. (2023). The effect of sarcotesta and time of sowing on seed germination of papaya cv. GJP 1. *Journal of Crop and Weed*, 19(1): 84-87.
- Juneja, R. P.; Parmar, G. M.; Chaudhari, R. J.; Parmar, S. K.; Detroja, A. C. and Mungra, K. D. (2023). Testing the Efficacy of IPM Modules against Insect Pest Complex of Pearl Millet. *The Pharma Innovation Journal*, SP-12 (9): 1071-1077.
- Kadam, D. D.; Sapre, S. S.; Patel, R. S.; Shitap, M. S. and Lavale, S. A. (2023). Morphological characters and proximate constituents in cladodes of prickly pear (*Opuntia* spp.). *J. of Crop and Weed*, 19(3): 83-92.
- Kamani, J. V.; Sharma, L. K.; Kulkarni, G. U.; Javia, R. M. and Kandolia, U. K. (2023). Characterization of mungbean (*Vigna radiata* (L.) wilczek) genotypes through plant morphological characters. *Frontiers in Crop Improvement*, 11 (2): 288-295.
- Kamani, J. V.; Sharma, L. K.; Kulkarni, G. U.; Javia, R. M.; Kandolia, U. K. and Singh, S. P. (2023). Characterization of mungbean (*Vigna radiata* (L.) wilczek) genotypes through chemical tests and





- seed quality parameters. *Frontiers in Crop Improvement*, 11 (2): 78-85.
- Kapadiya, H. J.; Talaviya, J. R. and Shah, K. D. (2023). Efficacy of fungicides against mycelial growth inhibition of *Macrophomina phaseolina* (Tassi) Goid. causing root rot of okra. *Agriways*. 11(1): 1-5.
- Khaniya, J; Talpada, M. M.; Sapovadiya, M. H.; Kulkarni, G. U. and Mehta D. R. (2023). Spectrum of genetic variability, correlation and path analysis for yield and yield contributing traits in bunch groundnut (*Arachis hypogaea* L.) *The Pharma Innovation Journal*, 12(12): 2850-2854.
- Lakhani, K.; Diwedi, A.; Timbadiya, P. N.; Marviya, G. V. and Suthar, K. (2023). Nanotechnology: A Smart Agriculture Invention. *Agriblossom*, 3(8): 25-35.
- Limbani, Harsiddhi and Mehta, D. R. (2023). Heterosis for earliness and fruit yield in okra (*Abelmoschus esculentus* (L.) Moench). *The Pharma Innovation Journal*, 12(6): 2325-2332.
- Limbani, Harsiddhi; Mehta, D. R. and Jadav, Sagar (2023). Combining ability analysis of genotypes through half-diallel method in okra (*Abelmoschus esculentus* (L.) Moench) over different environments. *The Pharma Innovation Journal*, 12(12): 3110-3114.
- Manvar, H. A.; Kathiriya, J. B. and Rajpura, M. R. (2023). The study on Empowerment of women by Self Help Groups. *International Journal of Novel Research and Development*, 8(7): 615-621.
- Manvar, H. A.; Rajpura, M. R. and Kathiriya, J. B. (2023). Role of Self-Help Group in socio-psychological empowerment of women. *International Journal of Innovative Sci. and Res. Tech.*, 8(7): 91-105.
- Mathukiya, H. V.; Kapadiya, I. B. and Bavaliya, M. M. (2023). Effect of different fungicides and biocontrol agents against dry root rot of green gram caused by *M. phaseolina* (Tassi) Goid. *Agriways Journal*, 11 (2): 11-19
- Meniya, V. H.; Padhiyar, S. M.; Desai, H.; Kheni, J. and Tomar, R. S. (2023). Development and Validation of Microsatellite Markers for Barnyard Millet obtained by Partial Genome Assembly. *Ann. Arid Zone*, 62(1): 83-89.
- Modhavadia, J. M.; Rathod, A. D.; Patel, R. J. and Bairwa, D. D. (2023). Effect of phosphorus and Sulphur on the yield and quality of wheat (*Triticum aestivum* L.) crop. *The Pharma Innovation Journal*, 12(12): 3509-3513.
- Naghara, Kuldeep and Dabhi, M. N. (2023). Standardization of flour proportion for pearl millet and chickpea based extruded product- A sensory approach. *The Pharma Innovation*, 12(8): 489-493.
- Padhiyar, S. M.; Supreeth, H. P.; Solanki, R. K.; Mungra, K. D. and Tomar R. S. (2023). Assessment of Molecular Diversity among Pearl millet [*Pennisetum glaucum* (L.) R. Br.] Maintainer (B) and Restorer Lines. *Ann. Arid Zone*, 62(1): 55-63.
- Parmar, A. R.; Barad, T. H.; Dhamsaniya, N. K. and Marviya, G. V. (2023). Effect of different process variables on functional properties of refractance window dried papaya pulp. *The Pharma Innovation*, 12(10): 1335-1339.
- Parmar, H. B.; Bhopala, U. D. and Dhandhalya, M. G. (2024). Analyzing the seasonal variations and price trends in major onion markets of India. *Asian Journal of Agricultural Extension, Economics & Sociology*, 42 (1): 24-33.
- Parmar, H. V.; Patel, R. J.; Pandya, P. A.; Bagada, P. J. and Damor, P. A. (2023). Geospatial technology for monitoring the moisture stress in agricultural fields. *Agri-India Today*, 03(09): 34-37.
- Parmar, Ravina; Khanpara, Brijesh; Joshi, Nirav and Dabhi, M. N. (2023). Drying characteristics and mathematical modelling of blanched turmeric rhizomes (*var. Salem*) influenced by drying temperature and blanching time. *The Pharma Innovation*, 12(12): 3642-3650.



- Patel, K. K.; Kandoliya, U. K.; Gajera, H. P.; Hirpara, D. G. and Savaliya D. D. (2023). Assessing the variability based on nutritional, antinutritional parameters and ISSR markers among the promising genotypes of black gram (*Vigna mungo* L.). *Indian J. of Agril. Biochem.*, 36(2): 145-152.
- Patel, M. L.; Gajera, B. A.; Kapadiya I. B. and Jotangiya K. S. (2023). Varietal screening of sapota against bud borer, *Anarsia achrasella* Bradley. *Agriways Journal*, 11 (1): 6-14.
- Patel, M. L.; Parmar, V. S. and Hadiya, N. J. (2023). Relationship between profiles of farmers with their knowledge about management practices of white grub. *Gujarat Journal of Ext. Edu.*, 35 (2): 92-96.
- Patel, Yukta J.; Polara, N. D.; Gondaliya, Rikshita R.; Patel, Darshana V. and Patel, Shivani (2023). Effect of different chemicals on yield attributing parameters and yield of ber cv. Gola. *The Pharma Innovation Journal*, 12(9): 789-792.
- Patoliya, H. and Sapre, S. S. (2023). Biochemical and enzymatic changes during the processing of different millets. *The Pharma Innovation*, 12(12): 2533-2536.
- Popalia, Chandani; Chandegara, V. K. and Rathod, P. J. (2023). Valorization of sweet orange peel by fluidized bed drying and cryogenic grinding: Colour characteristics evaluation. *The Pharma Innovation Journal*, 12(5): 1149-54.
- Prajapati, V. S.; Sharma P. S.; Undhad, S. V. and Parmar, A. R. (2023). Assessment of profitable animal practices in KVK adopted villages of district Rajkot. *International Journal of Agricultural Extension and Social Development*, 7(1):574-577.
- Radadiya, Chirag; Mehta, D. R. and Rathod, R. (2023). Genetic behaviour of earliness traits in okra [*Abelmoschus esculentus* (L.) Moench]. *The Pharma Innovation Journal*, 12(12): 2233-2241.
- Ramoliya, C. P.; Akabari, V. R.; Dholariya, N. D. and Savaliya J. J. (2023). Evaluation of the heterobeltiotic and economic heterotic potential of Sesame genotypes. *Frontiers in Crop Improvement*, 11 (Special Issue VI): 2684-2690.
- Rank, P. H.; Satasiya, R. M.; Limbasiya, B. B.; Parmar, H. V. and Prajapati, G. V. (2023). Sweet corn crop yield response to aerated drip irrigation under various irrigation water management strategies. *Emergent Life Science Research*. 9(1): 10-21.
- Rathod, A. D.; Modhavadia, J. M.; Patel, R. J. and Patel, N. H. (2023). Response of summer fodder maize (*Zea mays* L.) to irrigation scheduling based on IW/CPE ratio and levels of nitrogen. *The Pharma Innovation Journal*, 12(12): 3584-3588.
- Rathod, A. D.; Modhavadia, J. M.; Patel, R. J.; Thanki, R. B. and Bhedarada, N. D. (2023). Enhancing yield, quality, and nutrient content of green gram (*Vigna radiata* L.) through phosphorus fertilization and thiourea application. *The Pharma Innovation Journal*; 12(12): 3651-3654.
- Ready, P.; Sabara, P.; Padhiyar, S. M.; Kulkarni, G. U. and Tomar, R. S. (2023). Correlation and path analysis in groundnut (*Arachis hypogaea* L.) genotypes through agro-morphological study. *Ann. Arid Zone*, 2(3): 227-234.
- Sampada, R.; Butani, A. M. and Tendihal, Manjunath S. (2023). Study of fruit set, yield and fruit drop in different varieties of sapota (*Manilkara zapota* L.). *The Pharma Innovation Journal*, 12(10): 1264-1267.
- Sapara, G. K.; Kachhdiya, V. H.; Rajani, C. J. and Dobariya, K. L. (2023). GG HPS 2: A high yielding and large seeded Virginia bunch groundnut (*Arachis hypogaea* L.) variety for Gujarat state. *Journal of Oilseed research* 37 (special issue): 302.
- Sapara, G. K.; Madariya R. B. and Rajani C. J. (2023). GG 40: A High Yielding and High Oleic Spanish Bunch Groundnut Variety. *Frontiers in Crop Improvement* 11(Special issue-I): 422-424.
- Sapara, G. K.; Madariya R. B. and Rajani C. J. (2023). J 87 (GG 36): A high yielding Spanish bunch





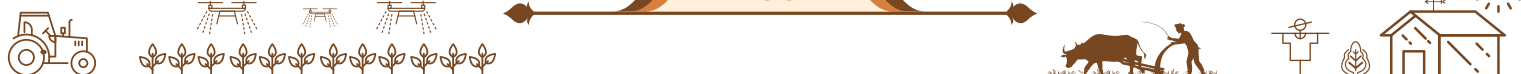
- groundnut variety for zone. *Journal of Oilseed research* 37 (special issue): 278.
- Sapariya, P. S.; Joshi, N. U. and Dabhi, M. N. (2023). Physical and functional properties of low temperature ground turmeric (*Curcuma longa*) powder. *Journal of Spices and Aromatic Crops*, 32(1): 24-33.
- Savaliya, J. G.; Babariya, C. A.; Prajapati, M. R.; Jadav, M. J. and Mori, R. B. (2023). Characterization of black sesame (*Sesamum indicum* L.) genotypes through chemical tests. *Biological Forum – An International Journal*. 15(2): 916-922.
- Sharma, L. K.; Kulkarni, G. U.; Javia R. M.; Monpara B. A.; Paradva V. B. and Singh S. P. (2023). Seed priming in chickpea (*Cicer arietinum* L.) - A review. *Frontiers in Crop Improvement*, 11 (1): 1-8.
- Singh, J. and Kumari, M. (2023). Bharat me E-commerce banam bhautik khudra store: Ek tulnatmak adhyan. *Lok Prashasan*, 15(1): 59-72.
- Sojitra, M. A.; Satasiya, R. M.; Rank, H. D.; Chauhan, P. M.; Parmar, H. V. and Patel D. V. (2023). Study the micro climatic parameter in protected structure. *Environment and Ecology*, 41(2A): 953-960.
- Sondarva, Jyoti; Patel, J. B. and Vaghasiya, K. P. (2023). Effect of seed pelleting on longevity of onion (*Allium cepa* L.) seeds during storage. *The Pharma Innovation Journal*, 12(8): 2615-2619.
- Sondarva, K. N. and Jayswal, P. S. (2023). Land use/land cover change study of the lower Tapi river basin using Remote Sensing and Geographic Information System. *Current Advances in Agricultural Sciences*, 15: 37-43.
- Sondarva, K. N.; Jayswal, P. S. and Dhodia, J. (2023). Morphometric analysis of Shel dedumal watershed using Remote Sensing and GIS. *International Journal of Agricultural Sciences*, 19: 193-196.
- Sondarva, K. N.; Shrivastava, P. K.; Jayswal, P. S.; Lakkad, A. P. and Patel, V. A. (2023). Basic morphometric analysis of watershed or river basin using GIS: A review. *Asian Jrounal of Microbiol. Biotech. Env. Sci.*, 25: 87-92.
- Tajender Kumar; Timbadiya, P. N. and Kandoliya, U. K. (2023), Genetic Diversity Analysis of Kabuli Chickpea (*Cicer Arietinum* L.) Promising Genotypes using Molecular Marker. *International Journal of Progr. Research Sci. Engi.*, 4(04): 110-114.
- Tajender Kumar; Timbadiya, P. N.; Kandoliya, U. K.; Parakhia, M. V. and Gajera, H. P. (2023). Assessing the Nutritional and Antinutritional Components of Promising Kabuli Chickpea (*Cicer arietinum* L.) Genotypes. *Int. J. Econ. Plants*, 10(2): 122-126.
- Tajpara, M. M.; Shah, N. M.; Patel, D.R. and Bhandari B. B. (2023). Comparative efficacy of S-ELISA, N & F gene based reverse transcriptase PCR and cell culture methods for detection of PPR virus in clinical specimens. *Indian Journal of Animal Health*, 62(2): 286-291.
- Taviyad, K. L.; Timbadiya, P. N. and Kandoliya U. K. (2023). Characterization of the Biochemical traits of a promising mung bean [*Vigna radiata* (L.) Wilczek] Genotype. *European Journal Biotechnol. Biosci.*, 11(1): 49-53.
- Trivedi, S. M.; Bhatt, J. D. and Thaker, N. M. (2023). Factors Affecting Financial Literacy of Agricultural Students. *Gujarat Journal of Extention Education*, 35 (2): 72-76.
- Trivedi, S. M.; Bhatt, J. D. and Thaker, N. M. (2023). Structural Equation Model for Financial Literacy of Students. *Gujarat Journal of Extention Education*, 36 (1): 149-152.
- Vaghasiya, K. P.; Patel, J. B. and Sondarva, Jyoti (2023). Effect of pre storage seed treatments on the storage potential in soybean seed [*Glycine max* (L.) Merrill]. *Legume Research*, publishe online (LR 5061).
- Vala, A. G.; Tomar, R. S.; Rathod, P. J. and Rajivkumar (2023). Speed Breeding: Accelerating Crop Improvement through Controlled Environments, Genetics, and High-Throughput Phenotyping. *Int. Adv. Res. J. Sci.*, 10(5): 746-749.



- Vala, A.; Bhayani, P. N.; Sama, G. R. and Parmar V. M. (2023). An Over view of Nutraceuticals and High Anthocyanin Containing Purple Tomato. *Front. Crop Improv.*, 11:960-966.
- Vala, A.; Nasreen Bano; Deshmukh, Y.; Tomar, R. S.; Joshi, C. G. and Subhash N. (2023). Genomics Approaches for Enhancing Abiotic Stress Tolerance in Groundnut: A Pathway to Crop Improvement. *Int. J. Sci. Res. Arch.*, 8(5): 1661-1663.
- Varma, Anamika; Thumar, B. V.; Dobariya, Kruti and Parsana, J. S. (2023). Different NPK levels and their impacts on flowering and yield in gomphrena and soil nutrient status. *The Pharma Innovation Journal*, 12(7):503-509.
- Varma, Anamika; Thumar, B. V.; Dobariya, Kruti and Parsana, J. S. (2023). Effect of different NPK levels on growth, quality and nutrient uptake in gomphrena. *The Pharma Innovation Journal*, 12(7):495-502.
- Vekariya, P. D.; Vora, V. D.; Kaneria, S. C.; Talpada, M. M.; Jotangiya, K. S. and Hirpara, D. S. (2024). Response of *Bt.* cotton to different levels of nitrogen, phosphorus and potash under rainfed conditions. *Journal of Cotton Research and Development*, 38 (1): 19-24.
- Vithlani, N. S. and Parmar H. V. (2023). Irrigation scheduling of wheat crop using Cropwat model in Bhadar canal command area of Saurashtra region. *Frontiers in Crop Improvement*, Vol 11 (Special Issue-VI): 2792-2796.
- Vithlani, N. S. and Parmar, H. V. (2023). Soil moisture estimation using Sentinel-1 SAR data and land surface temperature in Bhadar canal, Gujarat State. *Frontiers in Crop Improvement*, Vol 11 (Special Issue-V): 2425-2434.
- Vyas, Vaibhav; Davara, P. R.; Joshi, A. S.; Dabhi, M. N.; Rathod, P. J. and Sapariya, Parth (2023). Physical and sensory properties of peanut sauce prepared through fermentation process. *The Pharma Innovation Journal*, 2(5): 2620-2625.
- Yadav, Kiran; Parmar, K. B. and Bhorania, Nirali (2023). Evaluation of quality of underground irrigation water along the distance from coastal line of Northern Saurashtra region of Gujarat. *Journal of the Indian Society of Soil Science*, 71 (1): 33-40.

Research Papers published in International Journal

- Ahir, D. K.; Kumar, R; Chetariya, C. P.; Upadhyay. V.; Pandey, A. and Chaitanya, A. K. (2023). Effect of mutation on seed yield per plant and chlorophyll content in M_3 generation of green gram [*Vigna radiata* (L.) R. wilczek]. *International Journal of Environment and Climate Change*, 13(8): 1001-1013.
- Asodariya, S. R.; Rajani, A. V.; Vora, T. V. and Chauhan, K. J. (2023). Nutrient content, uptake, quality of biofortified pearl millet [*Pennisetum glaucum* (L.) R. Br.] and fertility status of soil as influenced by fertilization of potassium and zinc. *International Journal of Plant & Soil Science*, 35 (18): 1977-1982.
- Bana R. S.; Grover, Minakshi; Singh, Deepak; Bamboriya, Shanti; Godara, Samarth; Kumar, Manoj; Kumar, Anil; Sharma, Seema; Shekhawat, P. S.; Lomte, Dinesh; Bhuvra, H. M.; Babar, Sadhana; Suryawanshi, Ravindra; Vasuki, V.; Singh, Nirupma; Khandelwal, Vikas; Kumar, Anil; Singh, Anupama and Satyavathi Tara (2023). Enhanced pearl millet yield stability, water use efficiency and soil microbial activity using superabsorbent polymers and crop residue recycling across diverse ecologies. *European Journal of Agronomy*, 148 (2023)126876: 1-13.
- Bavaliya, M. M.; Kapadiya, I. B. and Mathukiya H. V. (2023). Effect of different biocontrol agents and fungicides against stem rot of cowpea caused by *S. rolfisii* under pot condition. *The Pharma Innovation Journal*, 12(1): 423-429.
- Bhadarka, Chandni R.; Kanzaria, D. R.; Perna, Prachi; Karmur, N. N.; Varu, D. K. and Makhmale, Sandip (2023). Impact of growth retardants on yield and



- quality of papaya (*Carica papaya* L.) cv. GJP 1. *The Pharma Innovation Journal*, 12(7): 3368-3372.
- Bhadarka, D. G.; Gohil, S. M.; Gaadhe, A. N.; Vadalia, D. D.; Mashru, H. H.; Prajapati, G. V.; Pandya, P. A. and Parmar, S. H. (2023). Sustainable Farming Practices: A comprehensive study on rain pipe irrigation system performance. *Res. Bio.*, 5(1):16-20.
- Bhaliya, C. M.; Kapadiya, H. J.; Chavda, J. G.; Kelaiya, D. S. and Thanki, R. B. (2023). Inoculation techniques for assessing pathogenicity of *Fusarium* spp. and *Macrophomina phaseolina* on chickpea. *The Pharma Innovation Journal*. 12(6): 656-659.
- Bhalu, V. B. (2023). Efficacy of pre and post emergence herbicides for weed management in chickpea. *International multidisciplinary journal of applied research*, 1(10): 110-116.
- Bhalu, V. B. (2023). Impending of weed seedbank dynamics and estimation of some new post-emergence herbicides and their mixtures for weed management in soybean (*glycine max*) and their residual effect on wheat. *International multidisciplinary journal of applied research*, 1(10): 44-51.
- Bhatti, Drashti; Varu, D. K. and Dudhat, Mansi (2023). Effect of different doses of urea and nano-urea on growth and yield of guava (*Psidium guajava* L.) CV. Lucknow-49. *The Pharma Innovation Journal*, 12(7): 464-468.
- Bhatti, Drashti; Varu, D. K. and Dudhat, Mansi (2023). Effect of different doses of urea and nano-urea on yield and quality of guava (*Psidium guajava* L.) CV. Lucknow-49. *The Pharma Innovation Journal*, 12(6): 4151-4156.
- Bhimani, A. M.; Jethva, D. M.; Kachot, A. V. and Patel, D. S. (2023). Standardization of pheromone trap density for mass trapping of Maize fall armyworm, *Spodoptera frugiperda* (J. E. Smith). *The Pharma Innovation Journal*, 12(12): 1105-1111
- Bhimani, A. M.; Kachot, A. V.; Patel, D. S. and Jethva, D. M. (2024). Laboratory efficacy of different insecticides against maize fall armyworm, *Spodoptera frugiperda* (J. E. Smith). *International Journal of Advanced Biochemistry Research*, 8(3): 22-24.
- Bhopala, U. D.; Dhandhalya, M. G. and Rathod, R. B. (2023). Spatio-temporal dynamics in cotton area, production and productivity: a worldwide scenario. *International Journal of Statistics and Applied Mathematics*, 8 (6): 183-186.
- Bhopala, U. D.; Dhandhalya, M. G.; Kumar, M. and Suthar, B. (2023). Forecasting cotton prices in major domestic markets of India: an analytical approach. *International Journal of Statistics and Applied Mathematics*, 8 (6): 172-176.
- Bhuva, S. S.; Dhamsaniya, N. K. and Marviya, G. V. (2023). Exploring quality assessment of peanut oil for encapsulation. *Pharm. Innov.*, 12(9): 888-891.
- Boratar, M. V.; Bhivgade S. W.; Koduru, Akhil; Praveen babuchavan; Anil Kumar; Atkari, D. G., Bhupesh, Vaid and Mungra, K. D. (2023). Genetic diversity and association study in pearl millet hybrid parents for genetic improvement of hybrids. *Plant archives* 104-109, October 23(2).
- Chaudhari R. J.; Parmar, G. M.; Juneja R. P.; Parmar S. K. and Mungra K. D. (2023). Eco friendly management of pearl millet downy mildew (*Sclerospora graminicola*) by using organic compounds. *The Pharma Innovation Journal*, 12(6): 762-765.
- Chaudhari R. J.; Talpada, M. M.; Detroja, A. C. and Galani, S. N. (2023). Effect of Weather parameters in relation to occurrence and development of leaf blight (*Alternaria macrospora*) of cotton. *Biological forum-An International Journal*, 15(8): 488-495.
- Chaudhari, H. A.; Mahatma, M.; Antala, V.; Radadiya, N.; Ukani, P.; Tomar, R. S.; Thawait, L.; Singh, S.; Gangadhara, K.; Sakure, A. and Parihar, A. (2023). Ethrel-induced release of fresh seed dormancy



- causes remodeling of amylase activity, proteomics, phytohormone, and fatty acid profile of groundnut (*Arachis hypogaea* L.). *Physiol. Mol. Biol. Plants*, 29: 829-842.
- Chaudhari, M. S.; Kataria, G. K.; Chandrakant Singh; Bhut, J. B.; Akbari, V. R. and Kaluskar, S. A. (2023). Response of different plant growth regulators on dry matter accumulation and morpho-physiological parameters of bunch groundnut (*Arachis hypogaea* L.) cv. TG-37A. *The Pharma Innovation Journal*, 12(9): 780-784.
- Chovatia, P. K.; Rupareliya, V. V.; Bhalu, V. B. and Gajera J. B. (2023). Efficacy of pre and post emergence herbicides for weed management in chickpea (*Cicer arietinum* L.). *Research matrix*, 10(1): 110-114.
- Davaria, P. J.; Jethva, D. M.; Sunitha, S. V. L.; Babariya, V. D.; Kachot, A. V. and Wadaskar, P. S. (2023). Evaluation of different trap installation heights for cotton pink bollworm. *Journal of Experimental Zoology of India*, 27(1): 1133-1138.
- Delvadiya, I. R.; Madariya, R. B.; Ginoya, A. V. and Patel, J. R. (2024). Uncovering the inheritance mechanisms of yield and oil content in Castor (*Ricinus communis* L.): a 21-generation study. *Euphytica*, 220(2): 1-8.
- Devra, S. J.; Patel, D. V.; Shitap, M. S. and Raj, S. R. (2023). Time series forecasting of price for oilseed crops by combining ARIMA and ANN. *International J. of Statistics and Applied Mathematics*, 8(4): 40-54.
- Dhawale, R. N.; Tomar, R. S.; Padhiyar, S.; Kheni, J.; Gulwe, A. and Tulahiram, H. S. (2023). De Novo transcriptome Sequencing and Metabolic profiling of Drought tolerance associated genes in little Millet (*Panicum sumatrense* L.). *Funct Integr Genomics*, 23(303): 18.
- Dudhat, Hilay; Pansuriya, A. G.; Chovatiya, N. C.; Parmar, M. J. and Vekaria, D. M. (2023). Analyzing combining ability and gene action for grain yield and its associated traits in bread wheat. (*Triticum aestivum* L.). *The Pharma Innovation*, 12(12): 3165-3170.
- Dudhat, Mansi; Varu, D. K. and Bhatti, D. N. (2023). Effect of bending and plant growth regulator on growth and cut flower yield of rose cv. top secret under protected condition. *The Pharma Innovation Journal*, 12(7): 1279-1283.
- Dudhat, Mansi; Varu, D. K.; Bhatti, D. N.; Parasana, J. S. and Patel Shivani (2023). Effect of bending and plant growth regulator on cut flower yield and quality of rose cv. top secret under protected condition. *The Pharma Innovation Journal*, 12(7): 1284-1288.
- Faldu, S. M.; Bhopala, U. D. and Ardesna, N. J. (2024). An analysis of growth and instability in area, production, yield and price behaviour of rice in India. *International Journal of Statistics and Applied Mathematics*, 9(1): 06-14.
- Gadhiya, V. C.; Kanani, M. K.; Dodiya, T. P. and Pastagia, J. J. (2024). Utilization of bumblebee in crop pollination. *Asian Research Journal of agriculture*. 17(2): 49-53.
- Gajera, H. P.; Hirpara, D. G.; Savaliya, D. D. and Parakhia M. V. (2023). Biochemical and molecular depictions to develop *ech42* gene specific SCAR markers for recognition of chitinolytic *Trichoderma* inhibiting *Macrophomina phaseolina* (Maubl.) Ashby. *Arch. Microbiol*, 205(6): 242.
- Gajera, J. B.; Vekariya, P. D. and Kachhadiya, S. P. (2023). Production potential and economics of summer groundnut under different hydrogel levels at varying irrigation scheduling in South Saurashtra Agro-climatic Zone. *Journal of Plant Development Sciences*, 15(10): 555-561.
- Ganvit, Khushbu N.; Rajani, A. V.; Sejpal, Priyank J. and Kumawat, Laxman (2023). Evaluation of organic carbon status in the soils of Saurashtra region. *The Pharma Innovation Journal* 12(2): 889-893.



- Ghadiya, R. H.; Talaviya, J. R.; Shah, K. D.; Lathiya, S. V. and Savaliya, V. A. (2023). Isolation, identification and pathogenicity of wilt in chilli (*Capsicum annuum* L.). *Frontiers in Crop Improvement* (Special Issue-I). 11: 378-381.
- Ghadiya, R. H.; Talaviya, J. R.; Shah, K. D.; Lathiya, S. V. and Savaliya, V. A. (2023). Isolation, identification and pathogenicity of collar rot in chilli (*Capsicum annuum* L.). *Frontiers in Crop Improvement* (Special Issue-I). 11: 382-385.
- Gharsiram; Solanki, R. M.; Suchitra; Kumawat Laxman and Jaryal Rishi Dev (2023). Assessment of crop-water requirement of Alfalfa using FAO-CROPWAT model-8.0. *International Journal of Environment and climate change*, 13 (10): 3896-3905.
- Gohil, P. J.; Chhodavadia, S. K.; Kumawat, P. D. and Vasava, M. S. (2023). Nutrient management in Isabgol (*Plantago ovata* Forsk) under South Saurashtra Agro-climatic Zone. *The Pharma Innovation Journal*, 12(12): 2767-2773.
- Gojiya, D. K.; Barad, A.; Gohil, V.; Dabhi, M. N.; Dhamsaniya, N. K.; Naliapara, V. and Sapariya, P. (2023). Quantification of design associated engineering properties of sesame (*Sesamum indicum* L.) seed varieties as a function of moisture content. *Journal of the American Oil Chemists' Society*, 100 (8), pp. 663-678.
- Gojiya, K. M.; Karangiya, B A.; Chavda, S. K.; Gaadhe, S. K.; Gojiya, D. K. and Rank, H. D. (2024). Soil moisture modelling using Remote Sensing and Artificial Neural Networks: A study of Devbhumi Dwarka region, Gujarat, India. *International Journal of Environment and Climate Change*, 14(1): 1-13.
- Gojiya, K. M.; Rank, H. D.; Chauhan, P. M.; Patel, D. V.; Satasiya, R. M. and Prajapati, G. V. (2023). Remote Sensing and GIS applications in soil salinity analysis: A comprehensive review. *International Journal of Environment and Climate Change*, 13(11): 2149-2161.
- Gore, V. B.; Rathod, P. J.; Vala, A. G.; Gulla, B. and Kumar D. (2023). Fatty acid profiling through GC-MS in oil extracted from thirty varieties of groundnut grown in Gujarat, India. *Emergent Life Sci. Res.*, 9(1): 149-158.
- Gundaraniya, S. A.; Ambalam, P.; RoliBudhwar; Padhiyar, S. M. and Tomar R. S. (2023). Transcriptome analysis provides insights into the stress response in cultivated peanut (*Arachis hypogaea* L.) subjected to drought stress. *Mol. Biol. Rep.*, 50: 6691-6701.
- Gundariya, Yash; Sapovadiya M. H. and Chaudhari S. B. (2023). Effect of pollination time on boll set, seed yield and seed quality of American cotton [(*Gossypium hirsutum* L.) cv. G.cot.Hy. – 24 BG – II]. *International Journal for Research Trends and Innovation*, 8(8): 531-534.
- Harsoda, A. P.; Kanzaria, K. K.; Lathiya, S. V. and Talaviya J. R. (2023). Management of Alternaria leaf spot of cotton caused by *Alternaria macrospora* (Zimm.) under south saurashtra condition, *Frontiers in Crop Improvement*. 11: (Special Issue-VI): 2930-2933.
- Hirapara, K. V.; Chovatia, P. K. and Gajera, J. B. (2023). Enhancing productivity of pigeon pea (*Cajanus cajan* L.) by weed management under climate crisis condition. *The Pharma Innovation J.*, 12(9): 908-911.
- Hirpara, D. G. and Gajera, H. P. (2023). Intracellular metabolomics and microRNAomics unveil new insight into the regulatory network for potential biocontrol mechanism of stress tolerant *Trichoderma fusants* interacting with phytopathogen *Sclerotium rolfsii* Sacc. *J. Cell. Physiol.*, 238(6): 1288-1307.
- Hirpara, D. G.; Gajera, H. P.; Savaliya, D. D. and Parakhia M. V. (2023). Exploring conserved and novel MicroRNA-like small RNAs from stresstolerant *Trichoderma fusants* and parental strains during interaction with fungal phytopathogen *Sclerotium rolfsii* Sacc. *Pestic. Biochem. Phys.*, 191:105368.





- Hirpara, I. M.; Jethva, D. M.; Desai, A. V. and Patel, D. H. (2023). Compatibility of *Beauveria bassiana* (Balsamo) Vuillemin with different insecticides and fungicides. *Indian Journal of Entomology*, 8(5): 43-49.
- Juneja, R. P.; Dhedhi, K. K.; Patoliya, B. V.; Bheda, M. K.; Amit Bera; Mungra, K. D.; and Detroja, A. C. (2023). Solar heating of seeds, a low cost method to control bruchid (*Callosobruchus* spp) attack during storage of chick pea. *The Pharma Innovation Journal*, 12 (10): 2094-2098.
- Kachot, A. V.; Jethva, D. M.; Patel, D. S.; Sharma, V. G. and Davaria, P. J. (2023). Evaluation of funnel diameter of sex pheromone trap for the management of brinjal shoot and fruit borer, *Leucinodes orbonalis* (Guenee). *The Pharma Innovation Journal*, SP-12(9): 2488-2490.
- Kadivar, M. R.; Muchhadiya, R. M.; Gohil, B. S. and Kumawat, P. D. (2023). Evaluating the safety of herbicide by bioassay techniques: A review. *International Journal of Research Culture Society*, 7(12): 84-91.
- Kapadia, C.; Datta, R.; Saiyed, M. M.; Tomar, R. S.; Kheni, J. and Ercisli, S. (2023). Genome-wide identification, quantification, and validation of differentially expressed miRNAs in Eggplant (*Solanum melongena* L.) based on sequencing of small RNA sequences in response to *Ralstonia solanacearum* infection. *ACS Omega*, 8(2): 2648–2657.
- Kapadiya, H. J.; Talaviya, J. R. and Shah, K. D. (2023). Efficacy of fungicides against mycelial growth inhibition of *Macrophomina phaseolina* (Tassi) Goid. causing root rot of okra. *Agriways*, 11(01): 1-5.
- Kapadiya, H. J.; Talaviya, J. R.; Shah, K. D. and Ghadiya, R. H. (2023). Evaluation of ready-mix fungicides against okra root rot [*Macrophomina phaseolina* (Tassi) Goid.] under *In vitro* condition. *Kavaka*, 59(2): 49-51.
- Karagatiya, F. P.; Patel, Shivani; Parasana, J. S.; Vasava, H. V.; Chaudhari, Tejal M.; Kanzaria, D. R. and Paramar, Virat (2023). Adapting fruit crops to climate change: Strengthening resilience and implementing adaptation measures in fruit crops. *The Pharma Innovation Journal*, 12(7): 3159-3164
- Ketali, Sneha S.; Swaminathan, B. and Aiswarya, S. (2024). Growth and instability trade-offs of chickpea cultivation in India. *International J. of Scientific Res. in Engg. and Management*, 8 (1): 168-175.
- Ketali, Sneha S.; Swaminathan, B. and Aiswarya, S. (2024). Towards *atmanirbharta* (self-reliance) in the production of pulse crops in India: A situational analysis of future demand and supply. *International Journal of Humanities Social Science and Management*, 4 (1): 241-254.
- Kharadi, R. R.; Bhuriya, K. P.; Bamaniya, V. P and Pargi, K. L. (2023). Effect of organic and inorganic fertilizers on soil physical properties & nutrients content and uptake of summer green gram. *International Journal of Plant & Soil Science*, 35(20): 183-189.
- Kumar, N.; Ninama, A. R.; Chaudhary, R.; Chandraker, V.; Chovatia. P. K.; Patel, A. and Jadeja, J. P. (2023). Retroaction of Summer Sesame (*Sesamum indicum* L.) towards foliar application of NPK and micronutrients on content and uptake of nutrients in medium black calcareous soil of South Saurashtra region. *International Journal of Plant & Soil Science*, 35(21): 743-750.
- Kumavat, Laxman; Savalia, S. G.; Ganvit, Surajkumar; Khusbu, N. S.; Paragi, K. A.; Kachhiya patel; Gorasiya Chirag and Doudariya R. K. (2023). Nitrogen fractions, organic carbon status and chemical properties in the soils of coastal region of Gujarat. *Frontiers in crop in crop improvement*, 11(1): 300-306.
- Kumawat, C. K.; Kulkarni, G. U.; Sharma, L. K. and Suchitra (2023). Phenotypic stability analysis in brinjal over Environments. *International Journal*





- of Bio-resource and Stress Management, 14(5): 709-718.
- Kumawat, Shankar Lal; Karetha, K. M.; Shatawat, Chetna and Khan, Salman (2023). Effect of scion age and kinentin on success rate of softwood grafting in mango cv. kesar. *Frontiers in Crop Improvement*, 119 Speci 1767:1772.
- Lalani, Sayroj; Bhalu, V. B.; Vekaria, L. C. and Gohil, B. S. (2023). Effect of various cow-based bio-enhancers and botanicals on quality, micro nutrient content and microbial population in soil after harvesting of summer groundnut (*Arachis hypogaea* L.). *Pharma Innovation*. 12(12):1944-1948.
- Manjunatha, T.; Ramya, K. T.; Lavanya, C.; Sarada, C.; Senthilvel, S.; Yamanura, M.; Patel, C. J.; Patel, A. M.; Patel, M. K.; Madariya, R. and Yadav. P. (2023). Genetic nature and role of environment in sex expression and phenological charactes of pistillate lines in Castor (*Ricinus communis* L.). *Genet. Resour. Crop. Evol.*, 70(8): 1-15.
- Mathukia, R. K.; Chhodavadia, S. K.; Vekaria, L. C. and Vasava M. S. (2023). Organic cultivation of summer groundnut using cow-based bioenhancers and botanicals. *Legume Research*, 46 (10): 1351-1355.
- Mevada, R. R.; Kapadiya, H. J.; Bhaliya, C. M. and Talaviya, J. R. (2023). Effect of various antagonists on biochemical parameters of banana fruits infected with *Colletotrichum musae* Berk. & Curt. causing anthracnose. *Progressive Horticulture*. 55(2): 102-106.
- Nagrare, V. S.; Fand, B. B.; Rishi Kumar; Chinnababu, V.; Gawande, S. P.; Patil, S. S.; Rameash, K.; Nagrale, D. T.; Wasnik, S. M; Nemade, P. W.; Deshmukh, S. B.; Magar, P. N.; Patil, P. P.; Bantewad, S. D.; Kedar, P. B.; Baheti, H. S.; Desai, H. R.; Patel, R. D. and Variya, M. V. 2023). Pink bollworm, *Pectinophora gossypiella* (Saunders) management strategy, dissemination and impact assessment in India. *Crop Protection*, 174: 106424.
- Padhiyar, Dixita; Kanzaria, D. R.; Senjaliya, H. J. and Vasava, H. V. (2023). Effect of different sowing time and planting distance on Okra growth. *The Pharma Innovation Journal*, 12(7): 2676-2680.
- Padhiyar, S. M.; Supreeth, H. P.; Solanki, R. K.; Mungra, K. D. and Tomar, R. S. (2023). Assessment of Molecular Diversity among Pearl Millet [*Pennisetum glaucum* (L.) R. Br.] Maintainer (B) and Restorer Lines. *Annals of Arid Zone*, 55-63, April 62(1).
- Pandya, P. A. and Gontia, N. K. (2024). Improving remote sensing based agricultural drought characterization in Saurashtra, Gujarat: A region-specific threshold approach. *Mausam*, 75(2): 381-394.
- Pandya, P. A.; Bhojani, S. H.; Parmar, S. H.; Prajapati, G. V. and Vadaliya, D. D. (2023). Hydrologic design of soil and water conservation structures using probability analysis and machine learning techniques in Saurashtra region of Gujarat, India. *Int. J. of Environment and Climate Change*, 13(8): 1181-1193.
- Pandya, P. A.; Parmar, S. H.; Prajapari, G. V.; Gohil, G. D. and Vadalia D. D. (2023). Rainfall variability analysis of Saurashtra region of Gujarat. *Int. J. Adv. Res. Biol. Sci.*, 10(6): 131-140.
- Pandya, P. A. and Gontia, N. K. (2023). Early crop yield prediction for agricultural drought monitoring using drought indices, remote sensing, and machine learning techniques. *Journal of Water and Climate Change*, 14(12), 4729-4746.
- Pandya, Yash; Singh, Chandrakant; Godha, Urvashi and Pansuriya A. G. (2023). Interactive responses of water-soluble fertilizers to mitigate drought stress effects on wheat (*Triticum aestivum* L.). *Acta Physiologiae Plantarum*, 45: 62.
- Pargi, K. L.; Ninama, A. R.; Bhuriya, K. P. and Bamaniya, V. P. (2023). Evaluation of nutrient content and uptake of summer cowpea (*Vigna unguiculata* L.) in integrated nutrient management under South Gujarat condition. *The Pharma Innovation Journal*, 12(09): 2071-2073.
- Parmar S. K.; Mungra K. D.; Sorathiya J. S.; Chaudhari R. J. and Galani S. N. (2023). Biofortified pearl



- millet hybrid: GHB 1231 (*Sawaj Shakti*). *The Pharma Innovation J.*, SP-12(8): 681-685.
- Parmar, A. M.; Parmar, G. M.; Gajera B. A. and Davaria, P. J. (2023). Bio-efficacy of different insecticides against shoot fly and stem borer in pearl millet. *The Pharma Innovation Journal*, 12(4): 1833-1835.
- Parsana, J. S.; Varu, D. K.; Parmar, V. M.; Patel, Shivani; Kanzaria, D. R. and Mishra S. (2023). Influence of pruning and integrated nutrient management on custard apple (*Annona Squamosa* L.). *Agricultural mechanization in Asia*, (54)4: 12865-12874.
- Patel, A. M.; Vaghani, J. J. and Parmar, K. B. (2023). Effect of sulphur sources and sulphur oxidizing bacteria (SOB) on yield and quality of summer soybean in Junagadh, Gujarat, India. *International Journal of Plant and Soil Science*, 35(20): 18-23.
- Patel, Nikita S.; Patel, J. B. and Tomar, R. S. (2023). Identification of heat tolerant bread wheat (*Triticum aestivum* L.) genotypes through heat susceptibility index (HSI) and SSR markers. *Cereal Research Communications*, published online.
- Patel, U. R.; Gadhiya, G. A. and Chauhan, P. M. (2023). Case Study on power generation from Agrivoltaic system in India. *International Journal of Environment and Climate Change*, 13(9): 1447-1454.
- Patel, V. S.; Varu, D. K.; Zala, K. R. and Solanki, K. S. (2023). Evaluation of different genotypes and cultivars of gaillardia on growth and yield under Saurashtra region. *The Pharma Innovation J.*, 12(10): 525-529.
- Patel, Z. B.; Chaudhari, P. P.; Patel, P. R.; Kumawat, Laxman and Katiyar, Drishti (2024). Effect of organic manures and bio-fertilizers on growth, yield and quality of *kharif* cowpea [*Vigna unguiculata* (L.)]. *International Journal of Plant & Soil Science*, 36 (4). pp. 42-51.
- Patoliya, B. V.; Ghelani, Y. H.; Kachhadiya, N. M.; Ghelani, M. K. and Godhani, H. S. (2024). Estimation of yield losses due to infestation of pod borer, *Helicoverpa armigera* (Hubner) in pigeon pea. *International Journal of Advanced Biochemistry Research*, 8(2): 361-363.
- Pokiya, N. J.; Swaminathan, B. and Agarwal, D. (2024). Determinants of adaptation strategies to climate change impact on major field crops in Saurashtra region, Gujarat. *International Journal of Statistics and Applied Mathematics*, 9 (1): 28-32.
- Radadiya, Chirag; Mehta, D. R. and Mavani, S. V. (2023). Numerical and graphical analysis for a half-diallel design of fruit yield and its components in okra [*Abelmoschus esculentus* (L.) Moench]. *International Journal for Research Trends and Innovation*, 8(6): 921-928.
- Radadiya, Chirag; Mehta, D. R.; and Raval, L. J. (2023). Combining ability and gene behaviour studies for fruit yield and its component traits in okra [*Abelmoschus esculentus* (L.) Moench]. *International Journal of Statistics and Applied Mathematics*, 8(6): 972-976.
- Ramani, M.; Chauhan, P. M.; Tiwari, V. K. and Dulawat, M. S. (2023). Renewable energy integration in agricultural practices: Assessing the energy generation performance of agrivoltaic greenhouse system. *The Pharma Innovation Journal*, 12(12): 287-290.
- Ramesh Kumar; Mehta, D. R.; Rajiv Kumar; Patel, Nikita S. and Shekhawat V. S. (2023). Stability analysis for yield and yield contributing traits in wheat (*Triticum aestivum* L.). *Agricultural Mechanization in Asia, Africa and Latin America*, 53 (6): 13477-13485.
- Rathod, N. P.; Khanpara, A. V.; Shah, K. D. and Sarvaiya, R. M. (2024). Field efficacy of different insecticides against leaf-eating caterpillar, *Spodoptera litura* infesting Soybean. *International Journal of Advanced Biochemistry Research*; SP-8(2): 605-612.
- Rathod, Viraj; Raval, Lata; Chaudhary, S. B. and Solanki, H. V. (2023). Heterosis and inbreeding depression studies in mungbean [*Vigna radiata*



- (L.) Wilczek]. *Agril. Mechanization in Asia*, 54(12): 16427-32.
- Rathod, Viraj; Solanki, H. V.; Chaudhary, J. H. and Lata, Raval (2023). Genetic analysis of homogenous and heterogeneous populations in mungbean [*Vigna radiata* (L.) wilczek]. *Agricultural Mechanization in Asia*, 54(12): 16497-16501.
- Rupapara, M. D.; Kanzaria, K. K.; Bhaliya, C. M. and Lathiya S. V. (2023). Biological control of cumin wilt caused by *Fusarium oxysporum* f. sp. *cumini* (Prasad and Patel) under south saurashtra condition. *Frontiers in Crop Improvement*, 11 (Special Issue-VI): 2934-2938.
- Rupareliya, V. V.; Chovatia, P. K.; Bhalu, V. B. and Ghelani (2023). Impending of weed seedbank dynamics and estimation of some new post-emergence herbicides and their mixtures for weed management in soybean (*Glycine max* L.) and their residual effect on wheat (*Triticum aestivum* L.). *Research matrix*, 10(1): 44-51.
- Sahu, S.; Kandoliya, U. K. and Gajera, H. P. (2023). Evaluating the impact of iron oxide nanoparticles on nutritional parameters and yield attributes of groundnut grown in calcareous soils. *J. Pharm. Innov.*, 12(9): 2246-2250.
- Sangeethika Reddy; Raval, Lata; Rathod, Viraj; Hadavani, Janaki and Vyas, U. M. (2023). Selection indices in vegetable cowpea (*Vigna unguiculata*). *Agricultural Mechanization in Asia*, 54(12): 16527-31.
- Sangeethika Reddy; Raval, Lata; Vyas, U. M; Rathod, Viraj and Vora, Zarna (2023). Genetic variability and diversity in vegetable cowpea (*Vigna unguiculata*). *Agril. Mechanization in Asia*, 54(12): 16513-25.
- Savani, K. R.; Gajera, H. P.; Hirpara, D. G.; Savaliya, D. D. and Kandoliya U. K. (2023). Salicylic acid-functionalised chitosan nanoparticles restore impaired sucrose metabolism in the developing anther of cotton (*Gossypium hirsutum*) under heat stress. *Funct Plant Biol*, 50(9): 736-751.
- Shah, K. D.; Jethva, D. M.; Ghelani, M. K. and Acharya, M. F. (2023). Synergism of plant oils with different insecticides against pod borer, *Helicoverpa armigera* (Hubner) hardwick infesting chickpea. *Legume Research*, 46(11): 1510-1517.
- Sharma, J.; Gadhiya, V. C.; Sharma, A.; Shah, K. D. and Patel, D. V. (2023). Evaluation of sesame genotypes for their resistance against leaf webber, *Antigastra catalaunalis* Duponchel. *Biological Forum – An International Journal*. 15 (7): 75-82.
- Sharma, V. G.; Jethva, D. M.; Wadaskar, P. S.; Kachot, A. V. and Davaria, P. J. (2023) Morphometric studies of stingless bees (*Tetragonula iridipennis* Smith) in Saurashtra region of Gujarat state. *The Pharma Innovation Journal*; 12(5): 1582-1585.
- Singh, Chandrakant; Pansuriya, A. G. and Vekaria, D. M. (2023). Selection of drought tolerance indices for screening of wheat (*Triticum aestivum* L.) genotypes under drought stress conditions. *The Pharma Innovation*, 12(9): 1737-1743.
- Sohaliya, Nikunj; Akbari, L. F.; Bhaliya, C. M. and Bhimani, Alpesh. (2023). The impact of meteorological variables on the development of blackgram anthracnose caused by *Colletotrichum lindemuthianum*. *The Pharma Innovation Journal*. 12(6): 656-659.
- Sojitra, M. A.; Satasiya, R. M.; Chauhan, P. M.; Rank, H. D.; Parmar, H. V.; Patel, D. V. and Prajapati, G. V. (2023). Economics of raising seedling of Broccoli (*Brassica oleracea* L. var. *Italica*) in protected structure. *International Journal of Economic Plants*, 9(4): 290-293.
- Solanki, H. V.; Mehta, D. R.; Rathod, V. B.; Barad, S. H.; and Chaudhary, J. H. (2023). Genetic architecture of seed cotton yield and its component traits in cotton (*Gossypium hirsutum* L.). *Agriculture Mechanization in Asia (AMA)*, 54(12): 16503-16511.
- Solanki, M. V.; Mahatma, M. K.; Varma, A.; Thawait, L. K.; Singh, S.; Jangir, C. K.; Meena, M. D.; Tomar, R. S.; Rathod, P. J.; Vala, A. and Kandoliya, U. K. (2024). Water deficit stress enhances the bioactive compounds of groundnut (*Arachis hypogaea* L.)



- kernels at the expense of primary metabolites. *Food Biosci.*, 58: 103670.
- Sunitha, S. V. L.; Jethva, D. M.; Davaria, P. J. (2024). Evaluation of methanol crude extracts of different botanicals against tobacco caterpillar, *Spodoptera litura* and gram caterpillar, *Helicoverpa armigera* under laboratory conditions. *Journal of Experimental Zoology India*, 27(1): 1055-1060.
- Umachagi, Shruti; Varu, D. K. and Prajapati, Shailendra Sagar (2023). Studies of genetic parameters for yield and its associated traits in tuberose. *The Pharma Innovation Journal*, 12(9): 1148-1151.
- Variya, M. V.; Acharya, M. F.; Bharadiya, A. M. and Patel, D. V. (2023). Validation of IPM module for pink bollworm, *Pectinophora gossypiella* on Bt cotton. *The Pharma Innovation*, 12(3): 3488-3491.
- Vasava, H. V.; Chaudhari, T. M.; Parasana, J. S.; Varu, D. K.; Patel, S. and Mishra, S. (2023). Performance of different grafted variety and mulching in brinjal (*Solanum melongena* L). *Agricultural Mechanization in Asia, Africa and Latin America*, 54 (4): 12981-12988.
- Vasoya, M. H.; Vekaria, L. C.; Kachhiyapatel, K. A. and Bhatti, Navdeep Singh (2023). Evaluation of heavy metals (Pb, Cd, Cu and Zn) contamination in underground water of Saurashtra region. *Pharma Innovation*. 12(12):1836-1839.
- Vekaria, P. D.; Vora, V. D.; Kaneria, S. C.; Talpada, M. M.; Jotangiya, K. S. and Hirpara, D. S. (2024). Response of Bt. Cotton to different levels of nitrogen, phosphorus and potash under rain fed condition *Journal of Cotton Research and Development*, Volume 38, Issue 1, pp.-19-24.
- Vekariya, P. D.; Vora, V. D.; Kaneria, S. C.; Thanki, R. B.; Jotangiya, K. S. and Hirpara, D. S. (2023). Performance of sorghum to different levels of nitrogen and phosphorus under conserved soil moisture in Ghed area of Gujarat. *International Journal of Agriculture Sciences*, 15(8): 12581-12582.
- Vekariya, P. R.; Dudhat, A. S.; Shitap, M. S. and Gundaniya, H. V. (2023). Co-integration of groundnut markets in Gujarat with special reference to the Saurashtra region. *International Journal of Statistics and Applied Mathematics*, SP-8(4): 160-16.
- Vora, Jeenal S.; Patel K. D.; Senjaliya H. J. and Vasava H. V. (2023). Effect of different levels of NPK on yield and quality of drumstick (*Moringa oleifera* L.) CV. PKM-1. *The Pharma Innovation Journal*, 2(8): 1759-1762.
- Vora, K. M.; Ghelani, Y. H.; Ghelani, M. K.; Kachhadiya, N. M. and Patoliya, B. V. (2024). Bio efficacy of different insecticides against pink bollworm, *Pectinophora gossypiella* (Saunders) on Bt cotton. *International Journal of Statistics and Applied Mathematics*, 9(1S): 341-346.
- Vora, K. M.; Ghelani, Y. H.; Kachhadiya, N. M.; Patoliya, B. V. and Ghelani, M. K. (2024). Influence of abiotic factor on incidence of Pink bollworm, *Pectinophora gossypiella* (Saunders) on Bt cotton. *International Journal of Advanced Biochemistry Research*, 8(2S): 244-249.
- Vora, K. M.; Ghelani, Y. H.; Patoliya, B. V.; Ghelani, M. K. and Kachhadiya, N. M. (2024). Estimation of yield losses due to pink bollworm, *Pectinophora gossypiella* (Saunders) on Bt cotton. *International Journal of Statistics and Applied Mathematics*, 9(1S): 338-340.
- Vora, V. D.; Vadaria, K. N.; Vekariya, P. D.; Kaneria, S. C.; Jotangiya, K. S. and Hirpara, D. S. (2023). Effect of nutrient management in gram under conserve soil moisture condition. *International Journal of Agriculture Sciences*, 15(7): 12532-12534.
- Vora, V. D.; Vadaria, K. N.; Vekariya, P. D.; Kaneria, S. C.; Jotangiya, K. S. and Hirpara, D. S. (2023). Effect of nitrogen levels and high density planting of Bt. cotton under rainfed condition in saurashtra region. *International Journal of Agriculture Sciences*, 15(8): 12543-12545.



- Vora, V. D.; Vekariya, P. D.; Kaneria, S. C.; Thanki, R. B.; Jotangiya, K. S. and Hirpara, D. S. (2023). Performance of castor to different levels of nitrogen and phosphorus under conserved soil moisture in Ghed area of Gujarat. *International Journal of Agriculture Sciences*, 15(8): 12583-12584.
- Yadav, Kiran; Parmar, K. B. and Bhorania, Nirali (2023). Soil salinity/sodicity pattern along the distance gradient from sea coast in soils of Northern Saurashtra coastal region of Gujarat. *Pharma Innovation*. 12 (3): 1327- 1333.
- Zala, K. R.; Karetha, K. M.; Patel, V. S. and Solanki, K. S. (2023). Evaluation of different varieties of dahalia (*Dahalia variabilis* L) in Saurashtra region of Gujarat. *The Pharma Innovation Journal*, 12(9): 1553-1555.
- Research Papers published in seminar/symposium/workshop/ conference etc.**
- Bariya M. K. (2024). Climate Services: Concept to approaching climate change on agriculture. National Seminar on "Innovative Agricultural Extension Approaches for Holistic Development of Farming Community" organized by SEEG and SDAU on January 6-7, 2024.
- Chhodavadia S. K., Gohil P. J., Vasava, M. S. and Solanki, R. M. (2023). Response of *rabi* castor based intercropping systems to drip irrigation. National Conference on "Transformation of Agro technologies for enhancing production under diverse Agro-ecosystem", jointly organized by ISA-Navsari Chapter and NAU at Saputara, October 12-14, 2023.
- Chovatia P. K. (2023). Efficacy of pre- and post-emergence herbicides for weed management in chickpea. International conference on "The millennium: honouring the past, Treasing the present, Shaping the future" organized by Asha Research and Development wing, during June 02, 2023, Nepal.
- Chovatia P. K. (2023). Impending of weed seedbank dynamics and estimation of some new post emergence herbicides and their mixtures for weed management in soybean and their residual effect on wheat. International conference on "The millennium: honouring the past, Treasing the present, Shaping the future" organized by Asha Research and Development wing, during June 02, 2023, Nepal.
- Gohil B. S., Vadhavana S. B. and Kumawat P. D. (2023). Weed management in kharif maize. National Symposium on "Climate Smart Agronomy for Resilient Production Systems and Livelihood Security" held during November 22-24, 2023 at ICAR-CSARI, Goa.
- Gohil P. J., Chhodavadia S. K. and Vasava M. S. (2023). Nutrient management in Isabgol (*Plantago Ovata* Forsk) under South Saurashtra Agro-climatic Zone. National Conference on "Transformation of Agro technologies for enhancing production under diverse Agro-ecosystem", jointly organized by ISA-Navsari Chapter and NAU at Saputara, October 12-14, 2023, pp. 754-756.
- Jaba Jagdish, Prabhu Ganiger, Davda, B. K. and Juneja, R. P. (2023). Deciphering host plant resistance for major insect-pests of millets: development and limitations. National Conclave on "Promotion of Millets (Shree Anna) for Sustainable Agriculture and Nutritional Security towards Global Prosperity: Key Challenges and Future Prospects" held at SDAU, SKNagar during Oct. 30-Nov. 01, 2023, pp: 163-180.
- Juneja R. P., Dhedhi K. K., Mungra K. D., Bera Amit, Patange N. R., Pawar S. B., Parmar G. M., and Chaudhari R. J. (2023). Effect of insecticidal treatment on seed viability during storage in chickpea seeds. 12th National Seed Congress-2023 held at Vasantao NMKV, Parbhani during December 11-13, 2023, pp-77
- Juneja R. P., Dhedhi K. K., Mungra K. D., Bera Amit, Patange N. R., Pawar S. B., Parmar G. M., and Chaudhari R. J. (2023). Effects of seed treatment



on viability of pearl millet seeds during storage. 12th National Seed Congress-2023 held at Vasantrya NMKV, Parbhani during December 11-13, 2023, pp: 227-228.

Kumawat P. D., Vadhel H. J., Bhuriya K. P. and Nagar, V. L. (2023). Integrated weed management in autumn planted sugarcane under south Saurashtra condition of Gujarat. Extended summaries: National Conference on “Transformation of Agro technologies for enhancing production under diverse Agro-ecosystem”, jointly organized by ISA-Navsari Chapter and NAU at Saputara, October 12-14, 2023. Kumawat P. D. (2023). Present Scenario and Future Prospects of Natural Farming in India. National Conference on “Transformation of Agro technologies for enhancing production under diverse Agro-ecosystem”, jointly organized by ISA-Navsari Chapter and NAU at Saputara, October 12-14, 2023.

Patel J. B., Babariya C. A., Sondarva J. R. and Savaliya D. V. (2024). Popularization and Production of quality seeds of newly released varieties under seed hub projects and its distribution in subsidized rate to the farmers under project RKVY-SRR: A success story. National Conference on “Quality Seed Production: Backbone to the National Food Security” held at GBPUA&T, Pantnagar during March 4-6, 2024.

Sindhi S. J., Patel J. V. and Mansuri, R. N. (2023). MILLETS - “Future of Food & Farming”. National Conference on “Transformation of Agrotechnologies for enhancing production under diverse Agro-ecosystem”, jointly organized by ISA-Navsari Chapter and NAU at Saputara, October 12-14, 2023.

Solanki R. M. and Rupareliya, V. V. (2023). Effect of cropping System Diversification and/or intensification on farmer's income under South Saurashtra Agro-Climatic zone. National

Conference on “Transformation of Agro-technologies for enhancing production under diverse Agro-ecosystem”, jointly organized by ISA-Navsari Chapter and NAU at Saputara, October 12-14, 2023.

Sondarva Jyoti, Patel J. B., Vaghasiya K. P. and Vora D. V. (2023). Effect of seed treatments, packaging materials and storage conditions on seed longevity in onion (*Allium cepa* L.). 12th National Seed Congress” organized by VNMKV, Parbhani during December 11-13, 2023.

Vaghasiya K. P., Patel J. B. and Sondarva Jyoti (2023). Effect of pre sowing seed treatments on seed yield and quality of soybean (*Glycine max* (L) Merrill). 12th National Seed Congress” organized by VNMKV, Parbhani during December 11-13, 2023.

