Publications list with NAAS rating (wef 01 January, 2022) of 6.0 or more during 2021.

S. No.	Research article	NAAS Rating
	2021	
	Das AK, Choudhary M, Kumar P, Karjagi CG, KR Y, Kumar R, Singh A, Kumar S, and Rakshit S. 2021. Heterosis in Genomic Era: Advances in the Molecular Understanding and Techniques for Rapid Exploitation. <i>Critical Reviews in Plant Sciences</i> . 40 (3): 218-42.	11.19
	Gireesh C, Sundaram RM, Anantha SM, Pandey MK, Madhav MS, Rathod S, Yathish KR, Senguttuvel P, Kalyani BM, Ranjith E, Subbarao LV, Mondal TK, Swamy M and Rakshit S. 2021. Nested Association Mapping (NAM) populations: present status and future prospects in the genomics era. <i>Critical Reviews in Plant Sciences</i> . 40 (1): 49-67. https://doi.org/10.1080/07352689.2021.1880019.	11.19
	Das AK, Gowda MM, Muthusamy V, Zunjare RU, Chauhan HS, Baveja A, Bhatt V, Chand G, Bhat JS, Guleria SK, Saha S. 2021. Development of Maize Hybrids With Enhanced Vitamin-E, Vitamin-A, Lysine, and Tryptophan Through Molecular Breeding. <i>Frontiers in Plant Science</i> . 20 : 1427.	11.75
	Sheoran S, Kumar S, Kumar P, Meena RS and Rakshit S. 2021. Nitrogen fixation in maize: breeding opportunities. <i>Theoretical and Applied genetics</i> . 134 (5): 1263-1280. https://doi.org/10.1007/s00122-021-03791-5.	11.70
	Pooniya V, Biswakarma N, Parihar CM, Swarnalakshmi K, Lama A, Zhiipao RR, Nath A, Pa, M, Jat SL, Satyanarayana T, Majumdar K, Jat RD, Shivay YS, Kumar D, Ghasal PC and Singh K. 2021. Six years of conservation agriculture and nutrient management in maize—mustard rotation: Impact on soil properties, system productivity and profitability. <i>Field Crops Research.</i> 260 (2021): 108002, https://doi. org/10.1016/j.fcr.2020.108002.	11.22
	Gupta M, Kumar H and Kaur S. 2021. Vegetative Insecticidal Protein (Vip): A Potential Detrimental Agricultural Pests. <i>Frontiers in Microbiology</i> . 12 : 1139.	11.64
	Lakshmi Soujanya P, Sekhar JC, Ratnavathi CV, Chikkappa G Karjagi, Shobha E, Suby SB, Yathish KR, Sunil N, Rakshit S. Induction of cell-wall phenolic monomers as part of direct defense response in maize to pink stem borer (<i>Sesamia inferens</i>) Walker and non-insect interactions. <i>Scientific Reports</i> . 11 : 14770.	10. 38
	Mehak Sethi, Alla Singh, Harmanjot Kaur RK, Phagna, Sujay Rakshit and DP Chaudhary. 2021. Expression Profile of Protein Fractions in the Developing Kernel of Normal, Opaque-2 and Quality Protein Maize. <i>Scientific Reports</i> . 11 : 2469.	10. 38
	Patra K, Parihar CM, Nayak HS, Rana B, Singh VK, Jat SL, Panwar S, Parihar MD, Singh LK, Sidhu HS, Gerard B, and Jat ML. 2021. Water budgeting in conservation agriculture- based sub-surface drip irrigation in tropical maize using HYDRUS-2D in South Asia. <i>Scientific Reports.</i> 11 : 16770. https://doi.org/10.1038/s41598-021-93866-6.	10. 38

S. No.	Research article	NAAS Rating
	Pooniya V, Zhiipao RR, Biswakarma N, Jat SL, Kumar D, Parihar CM, Swarnalakshmi K, Lama A, Verma AK, Roy D, Das Kajal, Majumdar K, Satyanarayana T, Jat RD, Ghasal PC, Ram Hardev, Jat RK, and Nath A. 2021. Long-term conservation agriculture and best nutrient management improves productivity and profitability coupled with soil properties of a maize–chickpea rotation. <i>Scientific Reports.</i> 11 : 10386. <u>https://doi.org/10.1038/s41598-021-89737-9</u>	10. 38
	Kumaraswamy RV, Saharan V, Kumari S, Choudhary RC, Pal A, Sharma SS, Rakshit S, Raliya R, and Biswas P. 2021. Chitosan-silicon nanofertilizer to enhance plant growth and yield in maize (Zea mays L.). <i>Plant Physiology and Biochemistry</i> , 159 : 53-66.	10.27
	Kaur S, Rakshit S, Choudhary M, Das AK, and Kumar RR. 2021. Meta-analysis of QTLs associated with popping traits in maize (<i>Zea mays</i> L.). <i>PloS one</i> . 16 (8), p. e0256389.	9.24
	Duo H, Hossain F, Muthusamy V, Zunjare RU, Goswami R, Chand G, Mishra SJ, Chhabra R, Gowda MM, Pal S, Baveja A, Bhat JS, Kamboj MC, Kumar B, Amalraj JJ, Khulbe R, Prakash B, Neeraja CN, Rakshit S and Yadav OP. 2021. Development of sub-tropically adapted diverse provitamin-A rich maize inbreds through marker assisted pedigree selection, their characterization and utilization in hybrid breeding. <i>PloS one</i> . 16 (2): e0245497.	9.24
	Sapna Langyan, Zahoor AD, Chaudhary DP., Shekhar JC, Susila Herlambang, Hesham El Enshasy, Sayyed RZ, , and Rakshit S. 2021. Analysis of Nutritional Quality Attributes and Their Inter-Relationship in Maize Inbred Lines for Sustainable Livelihood. <i>Sustainability</i> . 13 : 6137.	9.25
	Kumar K, Jha AK, Kumar B, Chikkappa GK, Abhishek A, Gambhir G, Aggarwal C, Tyagi A, Sharma P, Pandey P and Rakshit S. 2021. Development of an efficient and reproducible robust in vitro regeneration and transformation protocol for tropical maize (Zea mays L.) using mature seed-derived nodal explants. <i>Plant Cell Tissue and Organ Culture</i> (accepted)	8.71
	Baveja A, Muthusamy V, Panda KK, Zunjare RU, Das AK, Chhabra R, Mishra SJ, Mehta BK, Saha S, and Hossain F. 2021. Development of multinutrient-rich biofortified sweet corn hybrids through genomics-assisted selection of shrunken2, opaque2, lcyE and crtRB1 genes. <i>Journal of Applied Genetics</i> . 22 : 1-1.	9.24
	Jat SL, Suby SB, Parihar CM, Gambhir G, Kumar N, and Rakshit S. 2021. Microbiome for sustainable agriculture: a review with special reference to the corn production system. <i>Archives of Microbiology</i> . 21 : 1-23.	8.55
	Dey A, Shashank PR, Meshram NM, Subramanian S, Jeer M, Kalleshwaraswamy CM, Chavan SM, Jindal J, and Suby SB. 2021. Molecular diversity of Sesamia inferens (Walker, 1856) (Lepidoptera: Noctuidae) from India. <i>Biotech 3</i> . 11 (3): 1-0	8.41

S. No.	Research article	NAAS Rating
	Kumar P, Choudhary M, Jat BS, Kumar B, Singh V, Kumar V, Singla D, and Rakshit S. 2021. Skim sequencing: an advanced NGS technology for crop improvement. <i>Journal of</i> <i>Genetics.</i> 100 (2): 1-0.	7.17
	Kaur H, Das AK, Sethi M, Choudhary M, Rakshit S, and Chaudhary DP. 2021. Time course evaluation of provitamin A carotenoids stored under different storage regimens in maize. <i>Indian Journal of Experimental Biology</i> . 59 : 79-87.	6.82
	Guleria N, Nebapure SM, Jayanthi PD, Suby SB, and Kumar P. 2021. Identification of male-specific active host plant volatiles for maize stem borer, <i>Chilo partellus</i> Swinhoe. <i>Current Science</i> . 121 (4): 578-81.	7.10
	Singh I, Sheoran S, Kumar K, and Rakshit S. 2021. Speed breeding in maize vis-à-vis in other crops: status and prospects. <i>Indian Journal of Agricultural Sciences</i> . 91 (9): 1267–73.	6.37
	Das AK, S A, Chaudhary DP, Yathish KR, Karjagi CG, Kumar R, Kumar B, Vishal S, Mukri G, Sapna and Sujay Rakshit. 2021. Identification of potential donor for pro-vitamin A using functional markers in maize (<i>Zea mays</i> L) <i>Indian Journal of Genetics and Plant Breeding</i> . 81 (1): 50-55.	6.51
	Yathish KR, Gangoliya SS, Ghoshal T, Singh A, Phagna RK, Das AK, Neelam S, Singh SB, Kumar A, Rakshit S, Gadag RN, Hossain F and Karjagi CG. 2021. Biochemical estimation of phytic acid and inorganic phosphate in diverse maize germplasm to identify potential donor for low phytic acid (LPA) trait in tropical genetic background. <i>Indian Journal of</i> <i>Genetics and Plant Breeding</i> . 81 (2): 245-254.	6.51
	Singh P, Tomar R S, Kumar K, Kumar B, Rakshit S and Ishwar Singh I. 2021. Morpho- physiological and biochemical characterization of maize genotypes under nitrogen stress conditions. <i>Indian Journal of Genetics and Plant Breeding</i> . 81 (2): 1255-265.	6.51
	Kumar P, Suby SB, Jaswinder K, Bajya DR, Sekhar JC, Lakshmi SP, Jawala J, Ranvir S, Bana JK, Reddy LM, Jha GK. 2021. Assessment of crop loss caused by <i>Chilo partellus</i> in maize. <i>Indian Journal of Agricultural Sciences</i> . 91 (2): 218-21.	6.37
	Radheshyam, Jat SL, Parihar CM, Singh AK, Pooniya V, and Singh Raj. 2021. Evaluation of post-emergence herbicides in <i>kharif</i> maize (<i>Zea mays</i>): Effect on weed dynamics and weed control efficiencies. <i>Indian Journal of Agricultural Sciences</i> . 91 (11): 1566-70.	6.37
	Tufchi M, Rashmi R, Kumar A, Chaudhary DP, Singh NK, and Jat SL. Breeding quality protein maize (<i>Zea mays</i>): Genetic and analytical perspective. <i>IndianJournal of Agricultural Sciences</i> . 91 (6): 895–911.	6.37
	Singh SB, Kumar P, Kasana RK, Choudhary M, Kumar S, Kumar R, Karjagi CG, Kumar B and Rakshit S. 2021. Unveiling combining ability and heterotic grouping of newly	6.37

S. No.	Research article	NAAS Rating
	developed winter maize (<i>Zea mays</i>) inbreds. <i>Indian Journal of Agricultural Sciences</i> . 91 (11): 1586-1591.	
	Year 2020	
	Parihar CM, Singh AK, Jat SL, Dey A, Nayak HS, Mandal BN, Saharawat YS, Jat ML, and Yadav OP. 2020. Soil quality and carbon sequestration under conservation agriculture with balanced nutrition in intensive cereal-based system. <i>Soil and Tillage Research</i> . 202 : 104653.	11.37
	Singh A, Karjagi CG, and Rakshit S. 2020. Minimally altering a critical kinase for low-phytate maize. <i>Scientific Reports</i> . 10 (1): 1-5.	10.38
	Kumar K, Gambhir G, Das A, Tripathi AK, Singh A, Jha AK Yadav P, Chaudhary M, and Rakshit S. 2020. Genetically modifiedcrops: current status and future prospects. <i>Planta</i> . 251: 91. http://krishi. icar.gov.in/jspui/handle/123456789/35947.	10.12
	Das RR, Vinayan MT, Patel MB, Phagna RK, Singh SB, Shahi JP, Sarma A, Barua NS, Babu R, Seetharam K, Burgueño JA, and Zaidi PH. 2020. Genetic gains with rapid-cycle genomic selection for combined drought and waterlogging tolerance in tropical maize (<i>Zea mays</i> L.). Plant Genome. e20035	10.09
	Basavalingaiah K, Ramesha YM, Paramesh V, Rajanna GA, Jat SL, Dhar S, Gaddi AK, Girisha HC, Yogesh GS, Raveesha S, Roopa TK, Shashidhar KS, Kumar B, El-Ansary EO, and Elansary H. 2020. Energy budgeting, data envelopment analysis and carbon footprint of rice production system: a case study from puddle transplanted rice and direct-seeded rice system of Karnataka, India. <i>Sustainability</i> . 12 : 6439. doi: 10. 3390/su12166439.	9.25
	Pramitha JL, Jeeva G, Ravikesavan R, Joel AJ, Vinothana NK, Meenakumari B, Raveendran M, Uma D, Hossain F, Kumar B and Rakshit S. 2020. Environmental impact of phytic acid in Maize (<i>Zea mays</i> L) genotypes for the identification of stable inbreds for low phytic acid. <i>Physiology and Molecular Biology of Plants</i> . 26(7):1477-1488. doi.org/10.1007/s12298-020-00818-x	8.39
	Singh I, Debnath S, Gautam A, and Yadava P. 2020. Characterization of contrasting genotypes reveals general physiological and molecular mechanisms of heat-stress adaptation in maize (<i>Zea mays</i> L.). <i>Physiology and Molecular Biology of Plants</i> . 26 (5): 921-9.	8.39
	Sethi M, Kumar S, Singh A, and Chaudhary DP. 2019. Temporal profiling of essential amino acids in developing maize kernel of normal, opaque-2 and QPM germplasm. <i>Physiology and Molecular Biology of Plants</i> . 26 (2): 341-351 DOI: 10.1007/s12298-019-00724-x.	8.39

S. No.	Research article	NAAS Rating
	Kaur N, Singh B, Sharma S, and Kumar R. 2020. Refinement of a protocol for the assessment of antioxidative activities of normal maize (NM) and quality protein maize (QPM). <i>Journal of Food Processing and Preservation</i> . 44 (9): e14634.	8.19
	Suby SB, Jha SK, Karjagi CG, Kumar P, Sekhar JC, Kaur J, Cholla AK, Soujanya PL, Sharma RK, and Rakshit S. 2020. Penetration resistance of second above ground internode in V6–10 stage maize plants confer resistance to stalk boring larvae of Chilopartellus inmaize. <i>Phytoparasitica</i> . 48 : 455 469.	7.44
	Suby SB, Soujanya PL, Yadava P, Patil J, Subaharan K, Prasad GS, Babu KS, Jat SL, Yathish KR, Vadassery J, Kalia VK, Bakthavatsalam N, Shekhar JC, and Rakshit S. 2020. Invasion of fall armyworm (Spodoptera frugiperda) in India: nature, distribution, management and potential impact. <i>Current Science</i> , 119 (1): 44-51.	7.10
	Gupta A, Soujanya PL, Achterberg CV, and Sekhar JC. 2020. Coccygidium transcaspicum (Kokujev) (Hymenoptera: Braconidae) parasitizing larvae of invasive pest Spodoptera frugiperda (Lepidoptera: Noctuidae) in India. <i>Zootaxa</i> . 4750 (2): 293-297.	7.09
	Sapna, Chauhan SK, Chaudhary DP, Dar ZA, Sayyed RZ, Enshasy HAE. 2020. Correlation Studies among Nutritional Quality Parameters of Baby Corn. <i>Journal of Scientific &</i> <i>Industrial Research</i> . 79. 1-6.	7.06
	Soujanya PL, Sekhar JC, Ratnavathi CV, Shobha E, Karjagi CG, Suby SB, Sunil N, and Rakshit S. 2020. Role of soluble, cellwall-bound phenolics, tannin and flavonoid contents in maize resistance to pink stem borer Sesamia inferens Walker. <i>Maydica</i> . 65 - M8.	6.54
	Garg NK, Dahuja A, Singh A, Sapna, Chaudhary DP. 2020. Understanding the starch digestibility characteristics of Indian maize hybrids. <i>Indian Journal of Genetics and Plant Breeding</i> . 58. 738-744.	6.51
	Pal D, Muthusamy V, Zunjare RU, Jaiswal SK, Chhabra R, Baveja A, Chauhan HS, Bhatt V, Sekhar JC, and Hossain F. 2020. Genetic variability of popping quality traits and microsatellite-based characterization of popcorn inbreds for utilization in breeding programme. <i>Indian Journal of Genetics and Plant Breeding</i> . 80 (2), 154-162. DOI: 10.31742/IJGPB.80.2.5	6.51
	Kumar B, Kumar K, Jat SL, Srivastava S, Tiwari T, Kumar S, Pradhan HR, Meenakshi, Kumar B, Chaturvedi G, Jha AK, and Rakshit S. 2020. Rapid method of screening for drought stress tolerance in maize (<i>Zea mays</i> L.). <i>Indian Journal of Genetics and Plant</i> <i>Breeding</i> . 80 (1): 20-25.	6.51
	Kumar B, Kumar K, Jat SL, Srivastava S, Tiwari T, Kumar S, Pradhan HR, Meenakshi, Kumar B, Chaturvedi G, Jha AK, and Rakshit S. 2020. Rapid method of screening for drought stress tolerance in maize (<i>Zea mays</i> L.). <i>Indian Journal of Genetics and Plant</i> <i>Breeding</i> . 80 (1): 20-25.	6.51

S. No.	Research article	NAAS Rating
	Kumar P, Kumar S, Choudhary M, Chikappa GK, Kumar B, Singh NK, and Sinha SK. 2020. GGE biplot based stability analysis of experimental hybrids for baby corn purpose and green fodder. <i>Range Management & Agroforestry</i> . 41 (1): 60-66.	6.37
	Kumar R, Kaul J, Kaur Y, Das AK, Choudhary M, Singode A, Dubey RB, Sravani D, Mukari G, and Rakshit S. 2020. Response of Quality Protein Maize Hybrids for grain yield in diverse environments. <i>Indian Journal of Agricultural Sciences</i> . 90 (40): 756-61.	6.37
	Singh A, Karjagi C, Kumar R, Chaudhary DP, and Rakshit S. 2020. In-silico characterization of cadmium stress response- associated Abc1-like protein and its homologues in maize (<i>Zea mays</i>). <i>Indian Journal of Agricultural Sciences</i> . 90 (9): 1685- 9.	6.37
	Singh AK, Jat SL, Parihar CM, Kumar M, Singh CS, Hallikeri SS, Sreelatha D, Manjulatha G, Mahala DM. 2020. Precision nutrient management for enhanced yield and profitability of maize (<i>Zea mays</i>). <i>Indian Journal of Agricultural Sciences</i> . 90 (5): 952-60.	6.37
	Yadava P, Aggarwal C, Verma R, Kumar K, and Singh I. 2020. Effect of nitrogen- starvation on growth pattern and expression of nitrogen assimilation related genes in maize (<i>Zea mays</i> L.). <i>Indian Journal of Agricultural Sciences</i> . 90 (1): 195-200.	6.37
	Kumar R, Yadav MR, Arif M, Mahala DM, Kumar D, Ghasal PC, Yadav KC and Verma R K. 2020. Multiple agroecosystemservices of forage legumes towards agriculture sustainability: An overview. <i>Indian Journal of Agricultural Sciences</i> . 90 (8), 1367-1377. http://krishi.icar.gov.in/jspui/handle/123456789/43327.	6.37
	Year 2019	
	Jat SL, Parihar CM, Singh AK, Kumar B, Choudhary M, Nayak HS, Parihar MD, Parihar N, and Meena BR. 2019. Energy auditing and carbon footprint under long-term conservation agriculture-based intensive maize systems with diverseinorganic nitrogen management options. <i>Science of the Total Environment</i> . 664 : 659-668. https://doi.org/10.1016/j.scitotenv.2019.01.425.	13.96
	Jat SL, Parihar CM, Dey A, Nayak HS, Ghosh A, Parihar N, Goswami AK, Singh AK. 2019. Dynamics and temperature sensitivity of soil carbon mineralization under medium- term conservation agriculture as affected by residue andnitrogen management options. <i>Soil and Tillage Research</i> . 190 : 175-185.	11.37
	Parihar CM, Singh AK, Jat SL, Ghosh A, Dey A, Nayak HS, Parihar MD, Mahala DM, Yadav RK, Rai V, Satayanaryana T, and Jat ML. 2019. Dependence of temperature sensitivity of soil organic carbon decomposition on nutrient management options under conservation agriculture in a sub-tropical Inceptisol. <i>Soil and Tillage Research</i> . 190 : 50-60.	11.37
	Jat SL, Parihar CM, Singh AK, Nayak HS, Meena BR, Kumar B, Parihar MD, and Jat ML. 2019. Differential response from Nsources with and without residue management	11.22

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	under conservation agriculture on crop yields, water-use and economics in maize- based rotations. <i>Field Crops Research</i> . 236 : 96–110. https://doi.org/10.1016/j.fcr.2019.03.017	
	Parihar CM, Nayaka HS, Rai VK, Jat SL, Parihar N, Aggarwal P, and Mishra AK. 2019. Soil water dynamics, water productivity and radiation use efficiency of maize under multi- year conservation agriculture during contrasting rainfall events. <i>Field Crops Research</i> . 241 : 1075570.10.1016/j.fcr.2019.107570.	11.22
	Choudhary M, Singh A, Gupta M and Rakshit S. 2019. Enabling technologies for utilization of maizeas a bioenergy feedstock. <i>Biofuels, Bioproducts and Biorefining</i> . 14 (2): 402-416.	10.10
	Lopez-Zuniga LO, Wolters P, Davis Sc, Weldekidan T, Judith MK, Nelson R, Hooda, KS, Rucker E, Thomason W, Wisser R, and Balint-Kurti P. 2019. Using maize chromosome segment substitution line populations for the identification of loci 2 associated with multiple disease resistance. G3- <i>Genes Genomes Genetics</i> . 9 (1): 189-201. https://doi.org/10.1534/g3.118.200866.	9.15
	Sethi M, Kumar S, Singh A, and Chaudhary DP. 2019. Temporal profiling of essential amino acids in developing maize kernel ofnormal, opaque-2 and QPM germplasm. <i>Physiology and Molecular Biology of Plants</i> . 26 : 341–351	8.39
	Aggarwal SK, Neelam K, Jain J, Kaur R, Pannu PP, Lenka SK, Lore JS, and Singh K. 2019. Identification of promising resistance sources against sheath blight from the annual wild species of rice Oryza nivara (Sharma et Shastry). <i>Plant Genetic Resources.</i> 17 (6): 554-8.	7.08
	Kaur J, Singh J, Suby SB, and Kumar P. 2019. Differential preference for oviposition: a potential indicator of antixenosis in maize genotypes against Sesamia inferens (Walker). <i>Indian Journal of Experimental Biology</i> . 57 : 231-238.	6.82
	Devi S, Gupta C, Parmar MS, Jat SL, Sisodia N, and Kapil N. 2019. Mechanical properties of reinforced polyester and epoxycomposites of corn (<i>Zea mays</i>) stalk fibre. <i>Indian Journal of Agricultural Sciences</i> . 89 (5): 873-6.	6.37
	Kumar P, Choudhary M, Hossain F, Singh NK, Choudhary P, Gupta M, Singh V, Karjagi CG, Kumar R, Kumar B, Jat SL, and Rakshit S. 2019. Nutritional quality improvement in maize: Progress and Challenges. <i>Indian Journal of Agricultural Sciences</i> . 89 (6): 895– 911.	6.37
	Parihar MD, Parihar CM, Nanwal RK, Singh AK, Jat SL, Nayak HS, Ghasal PC, Jewlia HR, Choudhary M, and Jat ML. 2019. Effect of different tillage and residue management practices on crop and water productivity and economics in maize (<i>Zea mays</i>) based rotations. <i>Indian Journal of Agricultural Sciences.</i> 89 (2): 360-366.	6.37

S. No.	Research article	NAAS Rating
	Stori RM, Parihar CM, Ahmadi S, Ahmadzai KM, Nayak HS, Jat SL, Mandal BN, Wasifhy MK, Sayedi SA, Shamsi AB, Ehsan Q, Parihar MD, Kumar L, and Meena BR. 2019. Economical optimum dose of phosphorus for mungbean (<i>Vigna radiata</i>) under contrasting tillage practices in arid region. <i>Indian Journal of Agricultural Sciences</i> . 89 (1): 1658.	6.37
	Year 2018	
	Parihar CM, Parihar MD, Sapkota TB, Nanwal RK, Singh AK, Jat SL, Nayak HS, Mahala DM, Singh LK, Kakraliya SK, Stirling CM, and Jat ML. 2018. Long-term impact of conservation agriculture and diversified maize rotations on carbon pools and stocks, mineral nitrogen fractions and nitrous oxide fluxes in inceptisol of India. <i>Science of The Total Environment</i> . 640 –641: 1382-1392.	13.96
	Singh A, and Batra JK. 2018. Insight into the functional role of unique determinants in RNA component of RNase P of Mycobacterium tuberculosis. <i>International Journal of Biological Macromolecules</i> . 119 : 937-944. PMID: 30086331.	12.95
	Parihar CM, Singh AK, Jat SL, Ghosh A, Dey A, Nayak HS, Parihar MD, Mahala DM, Yadav RK, Rai V, Satayanaryana T, and Jat ML. 2018. Dependence of temperature sensitivity of soil organic carbon decomposition on nutrient management options under conservation agriculture in a sub-tropical Inceptisol. <i>Soil and Tillage Research</i> . 190 : 50-60.	11.37
	Parihar CM, Jat SL, Singh AK, Datta A, Parihar MD, Varghese E, Bandyopadhyay KK, Nayak HS, Kuri BR, and Jat ML. 2018. Changes in carbon pools and biological activities of a sandy loam soil under long-term conservation agriculture and diversified cropping systems. <i>European Journal of Soil Science</i> . 69 : 902–912.	10.95
	Das AK, Chhabra R, Muthusamy V, Chauhan HS, Zunjare RU, and Hossain F. 2018. Identification of SNP and InDel variations in the promoter and 5' untranslated regions of γ-tocopherol methyl transferase (ZmVTE4) affecting higher accumulation of α- tocopherol in maize kernel. <i>The Crop Journal</i> . 7 (4), 469-479.	10.41
	Das AK, Muthusamy V, Zunjare RU, Chauhan HS, Sharma PK, Bhat JS, Guleria SK, Saha S, and Hossain F. 2018. Genetic variability-, genotype × environment interactions-and combining ability-analyses of kernel tocopherols among maize genotypes possessing novel allele of γ-tocopherol methyl transferase (ZmVTE4). <i>Journal of Cereal Science</i> . 86 : 1-8.	9.62
	Lopez-Zuniga LO, Wolters P, Davis S, Weldekidan T, Kolkman JM, Nelson R, Hooda KS, Rucker E, Thomason W, Wisser R, and Balint-Kurti P. 2018. Using maize chromosome segment substitution line populations for the identification of loci 2 associated with multiple disease resistance. <i>G3: Genes Genomes Genetics.</i> 9 (1): 189-201.	9.15

S. No.	Research article	NAAS Rating
	Kumar V, Gathala MK, Saharawat YS, Parihar CM, Kumar R, Kumar R, Jat ML, Jat AS, Mahala DM, Kumar L, and Nayak HS. 2018. Impact of tillage and crop establishment methods on crop yields, profitability and soil physical properties in rice–wheat system of Indo- Gangetic Plains of India. <i>Soil Use and Management</i> . 35 : 303-313.	8.95
	Das AK, Jaiswal SK, Muthusamy V, Zunjare RU, Chauhan HS, Chand G, Saha S, and Hossain F. 2018. Molecular diversity and genetic variability of kernel tocopherols among maize inbreds possessing favourable haplotypes of γ-tocopherol methyl transferase (ZmVTE4). <i>Journal of Plant Biochemistry and Biotechnology</i> . 28 (3), 253- 262.	7.18
	Goswami R, Zunjare RU, Khan S, Muthusamy V, Baveja A, Das AK, Jaiswal SK, Bhat JS, Guleria SK, and Hossain F. 2018. Genetic variability of kernel provitamin-A in sub- tropically adapted maize hybrids possessing rare allele of â-carotene hydroxylase. <i>Cereal Research Communications</i> . 47 (2): 205-15.	6.85
	Kaur J, Singh J, Suby SB, and Kumar P. 2018. Differential preference for oviposition: a potential indicator of antixenosis in maize genotypes against Sesamia inferens (Walker). <i>Indian Journal of Experimental Biology</i> . 57 : 231238.	6.82
	Lakshmi Soujanya, P, Sekhar JC, Suby SB, Rakshit S, Susmitha GS, and Mallavadhani UV. 2018. Biopesticide treated double layered bags: Novel method of application of botanicals for Sitophilus oryzae L. management in stored maize. <i>Maydica.</i> 63 (1): 6.	6.54
	Cholla A, Chander S, Kaur J, Suby SB, and Kumar P. 2018. Improved method of screening maize germplasm for resistance against Chilo partellus (Swinhoe). <i>Indian Journal of Genetics and Plant Breeding</i> . 78 (4): 454-5.	6.51
	Kumar R, Kumar P, Kaur Yashmeet, Chikkappa GK, Chaudhary DP, Goyal M, and Tiwana US. 2018. Evaluation of maize hybrids for grain and fodder purpose. <i>Range Management and Agroforestry</i> . 39 (2): 182-190.	6.37
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S. No.	Research article	NAAS Rating
	Year 2017	
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S. No.	Research article	NAAS Rating
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