

Research Papers

1. Bag MK. 2019. Evaluation of germplasm: An avenue of identifying resistant donor in addition to characterization of emerging pathogen. *Journal of Mycopathology Research*. 56 (4): 235-242. **NAAS score 4.90**
2. Baite MS, Raghu S, Prabhukarthikeyan SR, Keerthana U, Jambhulkar NN, Rath PC. 2019. Disease incidence and yield loss in rice due to grain discolouration. *Journal of Plant Diseases and Protection*. <https://doi:10.1007/s41348-019-00268-y>. **NAAS score 6.62**
3. Banik A, Dash GK, Swain P, Kumar U, Mukhopadhyay SK and Dangar TK. 2019. Application of rice (*Oryza sativa* L.) root endophytic diazotrophic *Azotobacter* sp. strain Avi2 (MCC 3432) can increase rice yield under green house and field condition. *Microbiological research*. 219: 56-65. **NAAS score 8.78**
4. Banwari L, Priyanka G, Nayak AK, Maharana S, Rahul T, Mohammad S, Baig MJ, Raja R, Kato Y, Srivastava A and Singh S. 2019. Tolerant varieties and exogenous application of nutrients can effectively manage drought stress in rice. *Archives of Agronomy and Soil Science*. **NAAS score 8.25**
5. Barik SR, Pandit E, Pradhan SK, Mohanty SP and Mohapatra T. 2019. Genetic Mapping of Morpho-Physiological Traits Involved During Reproductive Stage Drought Tolerance in Rice. *Plos One*. 14(12): e0214979. **NAAS score 8.77**
6. Behera, Deeptirekha Pallavi Mangaraj, Alaka Swain and Mirza JaynulBaig (2019) Calli mediated regeneration and transformation of Indica rice cultivars, Naveen, IR64 and Swarna. *Journal of Pharmacognosy and Phytochemistry* 2019; 8 (1): 828-834. (**NAAS Score-5.21**)
7. Bhandari Aditi, Jayaswal Pawan, Yadav Neera, Singh Renu, Singh Yashi, Singh Balwant, Singh Nisha, Singh Sangeeta, Sevanthi Amitha, Rai Vandna, Verulkar Satish, Rao PV Ramana, M Girija Rani, T Anuradha, PV Satyanarayana, SL Krishnamurthy, Sharma Prabodh, Singh Deepika, Singh PK, Nilanjay, Kumar Rajesh, Sanjay Chetia, T Ahmad, Rai Mayank, Katara JL, Marandi B, Swain P, Sarkar RK, Singh DP, Reddy JN, Mandal N, Paramsivam K, Nadarajan S, Thirumeni S, BadriJyothi, G Padmavathi, T Ram and Singh Nagendra. 2019. Genomics-assisted backcross breeding for infusing climate resilience in high-yielding green revolution varieties of rice. *Indian Journal of Genetics*. 79(1): 160-170. **NAAS score 6.41**
8. Bhattacharyya P, Bhaduri D, Adak T, Munda S, Satapathy BS, Dash PK, Padhy SR, Pattanayak A, Routray S, Chakraborti M, Baig MJ, Mukherjee AK, Nayak AK and Pathak H. Characterization of rice straw from major cultivars for best alternative industrial uses to cutoff the menace of straw burning. *Industrial Crops & Products*. 143:111919 **NAAS score 9.85**
9. Bhattacharyya P, Dash PK, Swain CK, Padhy SR, Roy KS, Neogi S, Berliner J, Adak T, Pokhare SS, Baig MJ and Mohapatra T. 2019. Mechanism of plant mediated methane emission in tropical lowland rice. *Science of The Total Environment*. 651: 84-92. **NAAS score 10.61**
10. Bose LK, Jambhulkar NN, Sandhamitra P and Patra BC. 2019. Identification of Pre-harvest Sprouting Tolerant Rice Genotypes for Lowland Ecology. *International Journal of Current*

11. Chakraborty K, Chattaopadhyay K, Nayak L, Ray S, Yeasmin L, Jena P, Gupta S, Mohanty SK, Swain P, Sarkar RK. (2019) Ionic selectivity and coordinated transport of Na⁺ and K⁺ in flag leaves render differential salt tolerance in rice at the reproductive stage. *Planta* 250: 1637–1653. [NAAS Score: 9.25]
12. Chattopadhyay K, Behera L, Bagchi TB, Sardar SS, Moharana N, Patra NR, Chakraborti M, Das A, Marndi BC, Sarkar A and Ngangkham U. 2019. Detection of stable QTLs for grain protein content in rice (*Oryza sativa* L.) employing high throughput phenotyping and genotyping platforms. *Scientific reports.* 9(1): 3196. NAAS score 10.12
13. Chattopadhyay K, Sharma SG, Bagchi TB, Molla KA, Sarkar S, Marndi BC, Sarkar A, Dash SK and Singh ON. 2018. Development of recombinant high yielding lines with improved protein content in rice. *The Journal of Agricultural Science Cambridge.* 1–17. NAAS score 7.19
14. Das Sujata, Bose LK, Patra BC, Jambhulkar NN, MohapatraSudipti and Sanghamitra P. 2019. Genetic variability and association of yield attributing traits of Rice collections of Assam and Arunachal Pradesh. *International Journal of Current Microbiology and Applied Science.* 8 (4): 2720-2725. NAAS score 5.38
15. Dhali K and Basak N (2019). A review on developments in oil extraction from oilseeds. *Journal of Crop and Weed* 15(1): 56-63 NAAS score 5.28
16. Gautam P, Lal B, Nayak AK, Raja R, Panda BB, Tripathi R, Shahid M, Kumar U, Baig MJ, Chatterjee D and Swain CK. 2019. Inter-relationship between intercepted radiation and rice yield influenced by transplanting time, method, and variety. *International Journal of Biometeorology.* 24: 1-3. NAAS score 8.58
17. Gautam P, Lal B, Nayak AK, Tripathi R, Shahid M, Singh S and Meena B. 2019. Nutrient management and submergence tolerant varieties antecedently enhance the productivity and profitability of rice in flood prone reasons. *Journal of Plant Nutrition* 2019. NAAS score 6.57
18. Gowda BG, Patil NK, Adak T, Pandi GP, Basak N, DhaliKingshuk, Annamalai M, Prasanthi G, Mohapatra SD and Rath PC. 2019. Physico-chemical characteristics of rice (*Oryza Sativa* L.) grain imparting resistance and their association with development of rice weevil, *Sitophilus Oryzae* (L.) (Coleoptera: Curculionidae). *Environmental Sustainability.* 1-11. <https://doi.org/10.1007/s42398-019-00087-9>, SPRINGER. NAAS score 6.00
19. Jambhulkar NN, Bose LK, Pande K and Singh ON. 2019. Genotype by environment interaction and stability analysis using SREG stability statistics for yield and yield attributing traits in rice. *Oryza.* 56(1): 18-25. NAAS score 4.44
20. Kamal R, Dey A, Chandran PC, Mohanta RK, Giri SC, Mohanty S, Gupta SK and Barari SK. 2019. Phenotypic and morphometric characterization of desi duck of Odisha. *Indian Journal of Animal Sciences.* 89(3): 334–336. NAAS score 6.28
21. Kumar A, Nayak AK, Pani DR and Das BS. 2019. Application of phosphorus, iron, and silicon reduces yield loss in rice exposed to water deficit stress. *Agronomy Journal.* DOI: 10.2134/agronj2018.09.0608. NAAS score 7.42

22. Kumar A, Nayak AK, Pani DR and Das BS. 2019. Application of Phosphorus, Iron, and Silicon Reduces Yield Loss in Rice Exposed to Water Deficit Stress. *Agronomy Journal*. 111: 1-10. **NAAS score 7.42**
23. Kumar A, Panda D, Biswal M, Dey P, Behera L, Baig MJ, Nayak L, Ngangkham U, Sharma, SG. (2019). Low light stress influences Resistant starch content and Glycemic index of rice (*O. sativa* L.). *Starch-Starke*. 1800216: 1-8. **NAAS score 8.17**
24. Kumar A, Sahoo S, Sahu S, Nayak L, Ngangkham U, Parameswaran C, Bose LK, Samantaray S, Kumar G, Sharma, SG. (2018). Rice with pulses or cooking oils can be used to elicit lower glycemic response. *Journal of Food Composition and Analysis*. 71: 1-7. **NAAS score 8.96**
25. Kumar U, Behera S, Saha S, Das D, Guru PK, Kaviraj M, Munda S, Adak T and Nayak AK. 2020. Non-target effect of bispyribac sodium on soil microbial community in paddy soil. *Ecotoxicology and Environmental Safety*. 189: 110019. **NAAS score 9.97**
26. Kumar U, Kaviraj M, Panneerselvam P, Priya H, Chakraborty K, Swain P, Chatterjee SN, Sharma SG, Nayak PK and Nayak AK. 2019. Ascorbic acid formulation for survivability and diazotrophic efficacy of *Azotobacter chroococcum* Avi2 (MCC 3432) under hydrogen peroxide stress and its role in plant-growth promotion in rice (*Oryza sativa* L.). *Plant Physiology and Biochemistry*. 139: 419-427. **NAAS score 8.72**
27. Kumar U, Nayak AK, Panneerselvam P, Kumar A, Mohanty S, Shahid M, Sahoo A, Kaviraj M, Priya H, Jambhulkar NN, Dash PK, Mohapatra SD and Nayak PK. 2019. Cyanobiont diversity in six *Azolla* spp. and relation to *Azolla*-nutrient profiling. *Planta*. 249: 1435-1447. **NAAS score 9.25**
28. Lal B, Gautam P, Nayak AK, Panda BB, Bihari P, Tripathi R, Shahid M, Guru PK, Chatterjee D, Kumar U and Meena BP. 2019. Energy and carbon budgeting of tillage for environmentally clean and resilient soil health of rice-maize cropping system. *Journal of Cleaner Production*. 226: 815-830. **NAAS score 11.65**
29. Mahender A, Swamy BPM, Anandan A and Jauhar Ali. 2019. Tolerance of Iron-Deficient and -Toxic Soil Conditions in Rice. *Plants*. 8: 31. **NAAS score 8.63**
30. Minz PS, Sahoo B, Garg AK and Mohanta RK. 2019. Effect of feeding tanniferous Oak leaves on nutrient utilization, serum mineral profile and biochemical indices in goats. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*. 89: 533-542. **NAAS score 6.39**
31. Mohapatra KK, Mohapatra S, Ekka R, Behera RC and Mohanta RK. 2019. Variations in round-the-year fodder production in a low-cost hydroponic shed. *National Academy Science Letters*. <https://doi.org/10.1007/s40009-018-0764-5>. **NAAS score 6.52**
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- sequestration in agricultural soils: A review. *Science of The Total Environment*. 665: 890-912. **NAAS score 10.61**
35. Nayak AK, Shahid M, Nayak AD, Dhal B, Moharana KC, Mondal B, Tripathi R, Mohapatra SD, Bhattacharyya P, Jambhulkar NN, Shukla AK, Fitton N, Smith P and Pathak H. 2019. Assessment of ecosystem services of rice farms in eastern India. *Ecological Processes*. 8:35. **NAAS score 7.97**
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40. Panda D, Biswal M, Behera L, Baig MJ, Dey P, Nayak L, Sharma, SG, Samantaray S, Ngangkham U, Kumar A. (2019). Impact of low light stress on physiological, biochemical and agronomic attributes of rice. *Journal of Pharmacognosy and Phytochemistry*. 8(1): 1814-1821. **NAAS score 5.21**
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- return with rice varieties of NRRI, Cuttack. *Oryza*. 56 (Special Issue): 169-173. **NAAS score 4.44**
45. Pattanayak A, Roy S, Sood S, Iangrai B, Banerjee A, Gupta S and Joshi DC. 2019. Rice bean: a lesser known pulse with well-recognized potential. *Planta*. <https://doi.org/10.1007/s00425-019-03196-1>. **NAAS score 9.25**
 46. Prabhukarthikeyan SR, Anandan A, Pradosh M, YadavMK, Keerthana U, Aravindan S, Raghu S, Mathew S Baite, S Lenka, Panneerselvam P and PC Rath. 2018. An efficient 2-D gel electrophoresis protocol suitable for seed proteome of rice. *Oryza*. 55 (4): (523-527) **NAAS score 4.44**
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 49. Pradhan SK, Pandit E, Nayak DK, Behera L and Mohapatra T. 2019. Genes, pathways and transcription factors involved in seedling stage chilling stress tolerance in indica rice through RNA-Seq analysis. *BMC Plant Biology*. 19:352. <https://doi.org/10.1186/s12870-019-1922-8>. **NAAS score 8.16**
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65. Tripathi R, Moharana KC, Nayak AK, Dhal B, Shahid M, Mondal B, Mohapatra SD, Bhattacharyya P, Fitton N, Smith P and Shukla AK. 2019. Ecosystem services in different agro-climatic zones in eastern India: impact of land use and land cover change. *Environmental monitoring and assessment*. 191(2): 98. **NAAS score 7.80**
66. Tripathi R, Nayak, AK, Dhal B, Shahid M, Lal B, Gautam P, Mohanty S, Panda BB, Narayan SR and Shukla AK. 2019. Assessing soil spatial variability and delineating site-specific management zones for a coastal saline land in eastern India. *Archives of Agronomy and Soil Science*. 11: 1-3. **NAAS score 8.25**
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68. Vijayakumar S, Kumar D, Sharma VK, Shivay YS, Anand A, Saravanane P, Jinger D and Singh N. 2019. Potassium fertilization to augment growth, yield attributes and yield of dry direct seeded basmati rice (*Oryzasativa*). *Indian Journal of Agricultural Sciences*. 89(11): 164-168. **NAAS score 6.23**
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