

# Arunava Pattanayak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6414076/publications.pdf>

Version: 2024-02-01

49  
papers

1,209  
citations

430874

18  
h-index

414414

32  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1368  
citing authors

#	ARTICLE	IF	CITATIONS
1	From zero to hero: the past, present and future of grain amaranth breeding. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1807-1823.	3.6	99
2	Characterization of rice straw from major cultivars for best alternative industrial uses to cutoff the menace of straw burning. <i>Industrial Crops and Products</i> , 2020, 143, 111919.	5.2	85
3	Long-term effects of organic manure and inorganic fertilization on sustainability and chemical soil quality indicators of soybean-wheat cropping system in the Indian mid-Himalayas. <i>Agriculture, Ecosystems and Environment</i> , 2018, 257, 38-46.	5.3	83
4	Revisiting the versatile buckwheat: reinvigorating genetic gains through integrated breeding and genomics approach. <i>Planta</i> , 2019, 250, 783-801.	3.2	79
5	The potential of arbuscular mycorrhizal fungi in C cycling: a review. <i>Archives of Microbiology</i> , 2020, 202, 1581-1596.	2.2	76
6	Genetic Diversity and Population Structure in Aromatic and Quality Rice ( <i>Oryza sativa</i> L.) Landraces from North-Eastern India. <i>PLoS ONE</i> , 2015, 10, e0129607.	2.5	70
7	Land use changes: Strategies to improve soil carbon and nitrogen storage pattern in the mid-Himalaya ecosystem, India. <i>Geoderma</i> , 2018, 321, 69-78.	5.1	66
8	Revisiting the plant growth-promoting rhizobacteria: lessons from the past and objectives for the future. <i>Archives of Microbiology</i> , 2020, 202, 665-676.	2.2	60
9	Effect of dehulling, germination and cooking on nutrients, anti-nutrients, fatty acid composition and antioxidant properties in lentil ( <i>Lens culinaris</i> ). <i>Journal of Food Science and Technology</i> , 2017, 54, 909-920.	2.8	50
10	Rice bean: a lesser known pulse with well-recognized potential. <i>Planta</i> , 2019, 250, 873-890.	3.2	41
11	TDZ induced micropropagation in <i>Cymbidium giganteum</i> Wall. Ex Lindl. and assessment of genetic variation in the regenerated plants. <i>Plant Growth Regulation</i> , 2012, 68, 435-445.	3.4	37
12	Insights into maize genome editing via CRISPR/Cas9. <i>Physiology and Molecular Biology of Plants</i> , 2018, 24, 175-183.	3.1	37
13	Identification of a diverse mini-core panel of Indian rice germplasm based on genotyping using microsatellite markers. <i>Plant Breeding</i> , 2015, 134, 164-171.	1.9	36
14	Pesticidal perspectives of chitinolytic bacteria in agricultural pest management. <i>Soil Biology and Biochemistry</i> , 2018, 116, 52-66.	8.8	36
15	Alleviating aluminum toxicity in plants: Implications of reactive oxygen species signaling and crosstalk with other signaling pathways. <i>Physiologia Plantarum</i> , 2021, 173, 1765-1784.	5.2	28
16	Ancient orphan legume horse gram: a potential food and forage crop of future. <i>Planta</i> , 2019, 250, 891-909.	3.2	27
17	Long-term effects of organic manure and inorganic fertilization on biological soil quality indicators of soybean-wheat rotation in the Indian mid-Himalaya. <i>Applied Soil Ecology</i> , 2021, 157, 103754.	4.3	23
18	Stability Performance of Inductively Coupled Plasma Mass Spectrometry-Phenotyped Kernel Minerals Concentration and Grain Yield in Maize in Different Agro-Climatic Zones. <i>PLoS ONE</i> , 2015, 10, e0139067.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Genetic diversity analysis in the traditional and improved ginger ( <i>Zingiber officinale</i> Rosc.) clones cultivated in North-East India. <i>Scientia Horticulturae</i> , 2011, 128, 182-188.	3.6	21
20	Fertile plant regeneration from cryopreserved calli of <i>Oryza rufipogon</i> Griff. and assessment of variation in the progeny of regenerated plants. <i>Plant Cell Reports</i> , 2010, 29, 1423-1433.	5.6	17
21	Development and characterization of a new set of genomic microsatellite markers in rice bean ( <i>Vigna</i> ) Tj ETQq1 1 0.784314 rgBT /Ov from North East India. <i>PLoS ONE</i> , 2017, 12, e0179801.	2.5	17
22	Biomass and carbon budgeting of land use types along elevation gradient in Central Himalayas. <i>Journal of Cleaner Production</i> , 2019, 211, 1284-1298.	9.3	16
23	Increasing farmer's income and water use efficiency as affected by long-term fertilization under a rainfed and supplementary irrigation in a soybean-wheat cropping system of Indian mid-Himalaya. <i>Field Crops Research</i> , 2018, 219, 214-221.	5.1	15
24	Long-term tillage and irrigation management practices: Strategies to enhance crop and water productivity under rice-wheat rotation of Indian mid-Himalayan Region. <i>Agricultural Water Management</i> , 2020, 232, 106067.	5.6	15
25	Immunomodulation by dietary supplements: A preventive health strategy for sustainable aquaculture of tropical freshwater fish, <i>Labeo rohita</i> (Hamilton, 1822). <i>Reviews in Aquaculture</i> , 2021, 13, 2364-2394.	9.0	14
26	CMS system and its stimulation in hybrid seed production of <i>Capsicum annuum</i> L.. <i>Scientia Horticulturae</i> , 2017, 222, 175-179.	3.6	13
27	Biomass and carbon budgeting of sustainable agroforestry systems as ecosystem service in Indian Himalayas. <i>International Journal of Sustainable Development and World Ecology</i> , 2019, 26, 460-470.	5.9	13
28	Grain and Food Quality Traits of Some Indigenous Medicinal Rice Cultivars of Manipur, India. <i>International Journal of Food Properties</i> , 2010, 13, 1244-1255.	3.0	12
29	Sustainable agroforestry systems and their structural components as livelihood options along elevation gradient in central Himalaya. <i>Biological Agriculture and Horticulture</i> , 2019, 35, 73-95.	1.0	12
30	<i>Chakhao</i> (delicious) rice landraces ( <i>Oryza sativa</i> L.) of North-east India: collection, conservation and characterization of genetic diversity. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2014, 12, 264-272.	0.8	11
31	Diversity analysis of rice bean ( <i>Vigna umbellata</i> (Thunb.) Ohwi and Ohashi) collections from North Eastern India using morpho-agronomic traits. <i>Scientia Horticulturae</i> , 2018, 242, 170-180.	3.6	11
32	Bio-efficacy of chitinolytic <i>Bacillus thuringiensis</i> isolates native to northwestern Indian Himalayas and their synergistic toxicity with selected insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2019, 158, 166-174.	3.6	10
33	Detection and Assessment of Nutraceuticals in Methanolic Extract of Finger ( <i>Eleusine coracana</i> ) and Barnyard Millet ( <i>Echinochloa frumentacea</i> ). <i>Asian Journal of Chemistry</i> , 2016, 28, 1633-1637.	0.3	9
34	PRELIMINARY STUDIES ON PHYSICAL AND NUTRITIONAL QUALITIES OF SOME INDIGENOUS AND IMPORTANT RICE CULTIVARS OF NORTH-EASTERN HILL REGION OF INDIA. <i>Journal of Food Quality</i> , 2008, 31, 686-700.	2.6	8
35	Development of genic-SSR markers and their application in revealing genetic diversity and population structure in an Eastern and North-Eastern Indian collection of Jack ( <i>Artocarpus heterophyllus</i> Lam.). <i>Ecological Indicators</i> , 2021, 131, 108143.	6.3	6
36	Glutamine improves shoot morphogenesis in chickpea ( <i>Cicer arietinum</i> L.). <i>Acta Physiologiae Plantarum</i> , 2009, 31, 1077-1084.	2.1	5

#	ARTICLE	IF	CITATIONS
37	Genetic parameters of selection and stability and identification of divergent parents for hybridization in rice bean ( <i>Vigna umbellata</i> Thunb. (Ohwi and Ohashi)) in India. <i>Journal of Agricultural Science</i> , 2009, 147, 581-588.	1.3	4
38	Mapping quantitative trait loci for important agronomic traits in finger millet ( <i>Eleusine coracana</i> ) mini core collection with genomic and genic SSR markers. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2018, 27, 401-414.	1.7	4
39	Genetic analysis of panicle and physiological traits in hill rice grown in mid altitudes of northeastern India. <i>Acta Physiologiae Plantarum</i> , 2009, 31, 797-803.	2.1	3
40	Assessment of genetic diversity of upland rice ( <i>Oryza sativa</i> L.) genotypes from North Eastern Hill Region of India. <i>Vegetos</i> , 2019, 32, 407-419.	1.5	3
41	Biomass yield and nutrient content of dual purpose wheat in the fruit based cropping system in the North-Western mid-Himalaya ecosystem, India. <i>Field Crops Research</i> , 2020, 247, 107700.	5.1	3
42	Finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.) varietal adaptability in North-Western Himalayan region of India using AMMI and GGE biplot techniques. <i>Electronic Journal of Plant Breeding</i> , 2017, 8, 816.	0.1	3
43	Characterization of amaranth genetic resources for agro-morphological and nutritional traits in submontane Himalayan region of India. <i>Electronic Journal of Plant Breeding</i> , 2018, 9, 1484.	0.1	2
44	Weed management in rainfed finger millet. <i>Indian Journal of Weed Science</i> , 2016, 48, 74.	0.3	1
45	Standardized precipitation index (SPI) for drought severity assessment of Almora, Uttarakhand, India. <i>Journal of Agrometeorology</i> , 2020, 22, 203-206.	0.3	1
46	Long-Term Tillage and Irrigation Management Practices: Impact on Carbon Budgeting and Energy Dynamics under Rice-Wheat Rotation of Indian Mid-Himalayan Region. <i>Conservation</i> , 2022, 2, 388-401.	1.7	1
47	Simple Multiplex PCR for Rapid Diagnosis of Sex of Ducks and Duck Embryos. <i>Journal of Applied Animal Research</i> , 2008, 33, 117-120.	1.2	0
48	Climate-Resilient Agricultural Technologies for Mountain Ecosystem: A Review. <i>Climate Change and Environmental Sustainability</i> , 2019, 7, 125.	0.3	0
49	Land Uses Appraisal for Biomass Production and Carbon Stock in the Lower-Himalaya ecosystem, India. <i>Climate Change and Environmental Sustainability</i> , 2019, 7, 185.	0.3	0