Abhijit Sarkar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6080402/publications.pdf

Version: 2024-02-01

65 papers	1,632 citations	394421 19 h-index	315739 38 g-index
69 all docs	69 docs citations	69 times ranked	1616 citing authors

#	Article	IF	Citations
1	Agricultural utilization of biosolids: A review on potential effects on soil and plant grown. Waste Management, 2017, 64, 117-132.	7.4	286
2	Agroecological Responses of Heavy Metal Pollution with Special Emphasis on Soil Health and Plant Performances. Frontiers in Environmental Science, 2017, 5, .	3.3	215
3	Elevated ozone and two modern wheat cultivars: An assessment of dose dependent sensitivity with respect to growth, reproductive and yield parameters. Environmental and Experimental Botany, 2010, 69, 328-337.	4.2	99
4	Investigating the Impact of Elevated Levels of Ozone on Tropical Wheat Using Integrated Phenotypical, Physiological, Biochemical, and Proteomics Approaches. Journal of Proteome Research, 2010, 9, 4565-4584.	3.7	88
5	A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. Mass Spectrometry Reviews, 2013, 32, 335-365.	5.4	70
6	Cultivar specific variations in antioxidative defense system, genome and proteome of two tropical rice cultivars against ambient and elevated ozone. Ecotoxicology and Environmental Safety, 2015, 115, 101-111.	6.0	64
7	Translational plant proteomics: A perspective. Journal of Proteomics, 2012, 75, 4588-4601.	2.4	63
8	Supplemental ultravioletâ€B and ozone: impact on antioxidants, proteome and genome of linseed (Linum usitatissimum L. cv. Padmini). Plant Biology, 2011, 13, 93-104.	3.8	49
9	Reactive Oxygen Species (ROS) and Reactive Nitrogen Species (RNS) in plantsâ€“ maintenance of structural individuality and functional blend. Advances in Redox Research, 2022, 5, 100039.	2.1	48
10	Identification of ozone stress in Indian rice through foliar injury and differential protein profile. Environmental Monitoring and Assessment, 2010, 161, 205-215.	2.7	47
11	Preparation of novel biodegradable starch/poly(vinyl alcohol)/bentonite grafted polymeric films for fertilizer encapsulation. Carbohydrate Polymers, 2021, 259, 117679.	10.2	43
12	Evaluating the response of two high yielding Indian rice cultivars against ambient and elevated levels of ozone by using open top chambers. Journal of Environmental Management, 2012, 95, S19-S24.	7.8	42
13	Tropospheric Ozone and Plants: Absorption, Responses, and Consequences. Reviews of Environmental Contamination and Toxicology, 2011, 212, 61-111.	1.3	42
14	Polymer coated novel controlled release rock phosphate formulations for improving phosphorus use efficiency by wheat in an Inceptisol. Soil and Tillage Research, 2018, 180, 48-62.	5.6	34
15	Long-term in situ moisture conservation in horti-pasture system improves biological health of degraded land. Journal of Environmental Management, 2019, 248, 109339.	7.8	33
16	Metabarcoding analysis of the bacterial succession during vermicomposting of municipal solid waste employing the earthworm Eisenia fetida. Science of the Total Environment, 2021, 766, 144389.	8.0	25
17	Agriculture, dairy and fishery farming practices and greenhouse gas emission footprint: a strategic appraisal for mitigation. Environmental Science and Pollution Research, 2020, 27, 10160-10184.	5.3	24
18	Assessing the potential impact of fly ash amendments on Indian paddy field with special emphasis on growth, yield, and grain quality of three rice cultivars. Environmental Monitoring and Assessment, 2012, 184, 4799-4814.	2.7	21

#	Article	IF	Citations
19	Investigation of supplemental ultraviolet-B-induced changes in antioxidative defense system and leaf proteome in radish (Raphanus sativus L. cv Truthful): an insight to plant response under high oxidative stress. Protoplasma, 2010, 245, 75-83.	2.1	20
20	Phosphorus Release from Rock Phosphate as Influenced by Organic Acid Loaded Nanoclay Polymer Composites in an Alfisol. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 121-132.	1.0	20
21	Synthesis of Poly(vinyl alcohol) and Liquid Paraffin-Based Controlled Release Nitrogen-Phosphorus Formulations for Improving Phosphorus Use Efficiency in Wheat. Journal of Soil Science and Plant Nutrition, 2020, 20, 1770-1784.	3.4	19
22	Distinct nature of soil organic carbon pools and indices under nineteen years of rice based crop diversification switched over from uncultivated land in eastern plateau region of India. Soil and Tillage Research, 2021, 207, 104856.	5.6	16
23	Phosphorus Enriched Organic Amendments can Increase Nitrogen Use Efficiency in Wheat. Communications in Soil Science and Plant Analysis, 2019, 50, 1178-1191.	1.4	15
24	Effects of crop residues composts on the fractions and forms of organic carbon and nitrogen in subtropical Indian conditions. Soil Research, 2020, 58, 95.	1.1	15
25	Citric acid loaded nano clay polymer composite for solubilization of Indian rock phosphates: a step towards sustainable and phosphorus secure future. Archives of Agronomy and Soil Science, 2018, 64, 1564-1581.	2.6	14
26	Synchronization of Nitrogen Supply with Demand by Wheat Using Sewage Sludge as Organic Amendment in an Inceptisol. Journal of the Indian Society of Soil Science, 2017, 65, 264.	0.2	14
27	Genome-wide mapping of the ozone-responsive transcriptomes in rice panicle and seed tissues reveals novel insight into their regulatory events. Biotechnology Letters, 2013, 35, 647-656.	2.2	13
28	Plant Beneficial Rhizospheric Microbes (PBRMs): Prospects for Increasing Productivity and Sustaining the Resilience of Soil Fertility. , 2017, , 3-29.		13
29	Biological Responses of Agricultural Soils to Fly-Ash Amendment. Reviews of Environmental Contamination and Toxicology, 2014, 232, 45-60.	1.3	13
30	Depth dynamics of soil N contents and natural abundances of 15N after 43 years of long-term fertilization and liming in sub-tropical Alfisol. Archives of Agronomy and Soil Science, 2018, 64, 1290-1301.	2.6	11
31	Solubilization of Purulia Rock Phosphate Through Organic Acid Loaded Nanoclay Polymer Composite and Phosphate Solubilizing Bacteria and its Effectiveness as P-fertilizer to Wheat. Journal of the Indian Society of Soil Science, 2015, 63, 327.	0.2	11
32	Antifungal Activity of Siderophore Isolated From Escherichia coli Against Aspergillus nidulans via Iron-Mediated Oxidative Stress. Frontiers in Microbiology, 2021, 12, 729032.	3.5	11
33	Boosting the Globalization of Plant Proteomics through INPPO: Current Developments and Future Prospects. Proteomics, 2012, 12, 359-368.	2.2	10
34	Impact of ambient and supplemental ultraviolet-B stress on kidney bean plants: an insight into oxidative stress management. Protoplasma, 2014, 251, 1395-1405.	2.1	10
35	Comparative analysis of seed transcriptomes of ambient ozone-fumigated 2 different rice cultivars. Plant Signaling and Behavior, 2013, 8, e26300.	2.4	9
36	Effect of Utilization of Organic Waste as Agricultural Amendment on Soil Microbial Biomass. Annual Research & Review in Biology, 2015, 7, 155-162.	0.4	9

#	Article	IF	Citations
37	Release of Phosphorus from Laboratory Made Coated Phosphatic Fertilizers in Soil Under Different Temperature and Moisture Regimes. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2017, 87, 1299-1308.	1.0	8
38	Particulate Matter Pollution and Global Agricultural Productivity. Sustainable Agriculture Reviews, 2021, , 79-107.	1.1	8
39	Plant proteomics in India and Nepal: current status and challenges ahead. Physiology and Molecular Biology of Plants, 2013, 19, 461-477.	3.1	7
40	Prospects of Biomethanation in Indian Urban Solid Waste: Stepping Towards a Sustainable Future. Environmental Footprints and Eco-design of Products and Processes, 2016, , 1-29.	1.1	6
41	Comparison among four triazole fungicides on growth and development of sheath blight of rice pathogenRhizoctonia solaniKÃ¼hn AG1-1A. Archives of Phytopathology and Plant Protection, 2016, 49, 239-251.	1.3	6
42	Understanding the Impacts of Sowing Time and Tillage in Optimizing the Micro-Environment for Rainfed Lentil (Lens culinaris Medik) Production in the Lower Indo-Gangetic Plain. Journal of Soil Science and Plant Nutrition, 2020, 20, 2536-2551.	3.4	6
43	Transcriptomics of Mature Rice (Oryza Sativa L. Koshihikari) Seed under Hot Conditions by DNA Microarray Analyses. Atmosphere, 2020, 11, 528.	2.3	5
44	Decay Kinetics of Enzymes as Influenced by Manuring Under Varying Hydrothermal Regimes in a Wheatâ€“Maize Cropping System of Subtropical Cambisols in India. Journal of Soil Science and Plant Nutrition, 2021, 21, 908-921.	3.4	4
45	Preface of phytobiome in nutrient recycling, biogeochemistry, and spatial dynamics. , 2021, , 243-266.		4
46	Tillage and Potassium Management for Improving Yield, Physiological, and Biochemical Responses of Rainfed Lentil Under Moisture Stressed Rice-Fallow. Journal of Soil Science and Plant Nutrition, 2021, 21, 637-654.	3.4	4
47	A comprehensive insight into the biology of Rhizoctonia solani AG1-IA KÃ¼hn, the causal organism of the sheath blight disease of rice. Journal of Plant Pathology, 2022, 104, 79-98.	1.2	4
48	Can the nation-wide COVID-19 lockdown help India identify region-specific strategies for air pollution?. Spatial Information Research, 2022, 30, 233-247.	2.2	4
49	Trends in Summer-Time Tropospheric Ozone during COVID-19 Lockdown in Indian Cities Might Forecast a Higher Future Risk. Atmosphere, 2022, 13, 1115.	2.3	4
50	Induction of Iron Stress in Hepatocellular Carcinoma Cell Lines by Siderophore of Aspergillus nidulans Towards Promising Anticancer Effect. Biological Trace Element Research, 2022, 200, 3594-3607.	3.5	3
51	Impact of Varied Levels of N, P, and S Stoichiometry on C Mineralization from three Contrasting Soils with or Without Wheat Straw Amendment: a Laboratory Study. Journal of Soil Science and Plant Nutrition, 2022, 22, 501-514.	3.4	3
52	Assessing the effects of varied temperature and pH on the growth and sclerotial formation of Rhizoctonia solani Kuhn, isolated from paddy field: a case study.. International Journal of Life Sciences, 2014, 8, 4-9.	0.2	2
53	Phytobiomes: Role in Nutrient Stewardship and Soil Health. , 2020, , 1-28.		2
54	Impact of tropospheric ozone pollution on wheat production in Southeast Asia. , 2021, , 235-266.		2

#	Article	IF	Citations
55	Do you care to manage your waste: Itâ€™s high time to voice towards a sustainable waste management system worldwide. International Journal of Life Sciences, 2014, 8, i.	0.2	2
56	Impacts of Ozone (O3) and Carbon Dioxide (CO2) Environmental Pollutants on Crops: A Transcriptomics Update. , 0, , .		1
57	â€˜Cost of Knowledgeâ€™ and â€˜Quality of Knowledgeâ€™: Looking towards Future. International Journal of Life Sciences, 2013, 7, i.	0.2	1
58	INPPO Actions and Recognition as a Driving Force for Progress in Plant Proteomics: Change of Guard, INPPO Update, and Upcoming Activities. Proteomics, 2013, 13, 3093-3100.	2.2	0
59	Letâ€™s act positively and progressively: both in â€˜Scienceâ€™ and in â€˜Lifeâ€™. International Journal of Life Sciences, 2014, 8, i-ii.	0.2	0
60	Electrophoretic Separation of Humic Acids Isolated from Tropical Soils Through Modified Denaturing Polyacrylamide Gel Electrophoresis. Agricultural Research, 2017, 6, 179-184.	1.7	0
61	Variability of Crop Residues Determines Solubilization and Availability of Phosphorus Fractions during Composting of Rock Phosphate Enriched Compost Vis-Ã-vis Ordinary Compost. Communications in Soil Science and Plant Analysis, 2020, 51, 2085-2101.	1.4	0
62	Tropospheric Ozone Pollution, Agriculture, and Food Security. , 2021, , 704-724.		0
63	Letâ€™s review IPCC fifth assessment report (AR 5) on â€˜Climate Changeâ€™: Itâ€™s high time to find a sustainable solution. International Journal of Life Sciences, 2014, 8, i-ii.	0.2	0
64	Tropospheric Ozone Pollution, Agriculture, and Food Security. Advances in Environmental Engineering and Green Technologies Book Series, 2017, , 233-252.	0.4	0
65	Proteomics as a tool to understand the biology of agricultural crops. , 2022, , 107-122.		0