Abhijit Sarkar

List of Publications by Year
in descending order

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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	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
2	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
3	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
4	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
5	Proteomics as a tool to understand the biology of agricultural crops. , 2022, , 107-122.		0
6	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
7	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
8	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
9	Tropospheric Ozone Pollution, Agriculture, and Food Security. , 2021, , 704-724.		0
10	Impact of tropospheric ozone pollution on wheat production in Southeast Asia. , 2021, , 235-266.		2
11	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
12	Preface of phytobiome in nutrient recycling, biogeochemistry, and spatial dynamics. , 2021, , 243-266.		4
13	Particulate Matter Pollution and Global Agricultural Productivity. Sustainable Agriculture Reviews, 2021, , 79-107.	1.1	8
14	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
15	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
16	Preparation of novel biodegradable starch/poly(vinyl alcohol)/bentonite grafted polymeric films for fertilizer encapsulation. Carbohydrate Polymers, 2021, 259, 117679.	10.2	43
17	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
18	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

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19	Phytobiomes: Role in Nutrient Stewardship and Soil Health. , 2020, , 1-28.		2
20	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
21	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
22	Transcriptomics of Mature Rice (Oryza Sativa L. Koshihikari) Seed under Hot Conditions by DNA Microarray Analyses. Atmosphere, 2020, 11, 528.	2.3	5
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	Electrophoretic Separation of Humic Acids Isolated from Tropical Soils Through Modified Denaturing Polyacrylamide Gel Electrophoresis. Agricultural Research, 2017, 6, 179-184.	1.7	0
33	Agricultural utilization of biosolids: A review on potential effects on soil and plant grown. Waste Management, 2017, 64, 117-132.	7.4	286
34	Plant Beneficial Rhizospheric Microbes (PBRMs): Prospects for Increasing Productivity and Sustaining the Resilience of Soil Fertility. , 2017, , 3-29.		13
35	Agroecological Responses of Heavy Metal Pollution with Special Emphasis on Soil Health and Plant Performances. Frontiers in Environmental Science, 2017, 5, .	3.3	215
36	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

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37	Tropospheric Ozone Pollution, Agriculture, and Food Security. Advances in Environmental Engineering and Green Technologies Book Series, 2017, , 233-252.	0.4	0
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Biological Responses of Agricultural Soils to Fly-Ash Amendment. Reviews of Environmental Contamination and Toxicology, 2014, 232, 45-60.	1.3	13
47	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
48	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
49	Plant proteomics in India and Nepal: current status and challenges ahead. Physiology and Molecular Biology of Plants, 2013, 19, 461-477.	3.1	7
50	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
51	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
52	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
53	Comparative analysis of seed transcriptomes of ambient ozone-fumigated 2 different rice cultivars. Plant Signaling and Behavior, 2013, 8, e26300.	2.4	9
54	â€˜Cost of Knowledgeâ€™ and â€˜Quality of Knowledgeâ€™: Looking towards Future. International Journal of Life Sciences, 2013, 7, i.	0.2	1

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55	Translational plant proteomics: A perspective. Journal of Proteomics, 2012, 75, 4588-4601.	2.4	63
56	Boosting the Globalization of Plant Proteomics through INPPO: Current Developments and Future Prospects. Proteomics, 2012, 12, 359-368.	2.2	10
57	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
58	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
59	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
60	Tropospheric Ozone and Plants: Absorption, Responses, and Consequences. Reviews of Environmental Contamination and Toxicology, 2011, 212, 61-111.	1.3	42
61	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
62	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
63	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
64	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
65	Impacts of Ozone (O3) and Carbon Dioxide (CO2) Environmental Pollutants on Crops: A Transcriptomics Update. , 0, , .		1