

Milan K Lal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

603
citations

14
h-index

22
g-index

68
ext. papers

1,176
ext. citations

4.1
avg, IF

4.67
L-index

#	Paper	IF	Citations
57	Melatonin Mitigates Cadmium Toxicity by Promoting Root Architecture and Mineral Homeostasis of Tomato Genotypes. <i>Journal of Soil Science and Plant Nutrition</i> , 2022 , 22, 1112	3.2	3
56	Melatonin Improves Drought Stress Tolerance of Tomato by Modulating Plant Growth, Root Architecture, Photosynthesis, and Antioxidant Defense System.. <i>Antioxidants</i> , 2022 , 11,	7.1	14
55	Effect of parboiling on starch digestibility and mineral bioavailability in rice (<i>Oryza sativa</i> L.). <i>LWT - Food Science and Technology</i> , 2022 , 156, 113026	5.4	1
54	A chloroplast Glycolate catabolic pathway bypassing the endogenous photorespiratory cycle enhances photosynthesis, biomass and yield in rice (<i>Oryza sativa</i> L.).. <i>Plant Science</i> , 2022 , 314, 111103	5.3	6
53	Salinity responses and tolerance mechanisms in underground vegetable crops: an integrative review.. <i>Planta</i> , 2022 , 255, 68	4.7	5
52	Impacts, Tolerance, Adaptation, and Mitigation of Heat Stress on Wheat under Changing Climates.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	7
51	Glycolate catabolic bypass pathway integration in rice could be effective in lowering photorespiratory rate with modulating starch content and grain quality. <i>Oryza</i> , 2022 , 59, 51-58	0.3	
50	Mechanistic insight on boron-mediated toxicity in plant its mitigation strategies: a review.. <i>International Journal of Phytoremediation</i> , 2022 , 1-18	3.9	3
49	Heterologous expression, on-column refolding and characterization of gamma-glutamyl transpeptidase gene from <i>Bacillus altitudinis</i> IHB B1644: A microbial bioresource from Western Himalayas. <i>Process Biochemistry</i> , 2022 , 116, 126-135	4.8	1
48	Cytokinins: A Genetic Target for Increasing Yield Potential in the CRISPR Era.. <i>Frontiers in Genetics</i> , 2022 , 13, 883930	4.5	2
47	Biochemical markers for low glycemic index and approaches to alter starch digestibility in rice. <i>Journal of Cereal Science</i> , 2022 , 106, 103501	3.8	1
46	Physiological and biochemical mechanisms and adaptation strategies of plants under boron deficiency conditions 2022 , 127-146		
45	Insight into melatonin-mediated response and signaling in the regulation of plant defense under biotic stress. <i>Plant Molecular Biology</i> , 2021 , 1	4.6	9
44	Silicon Nanoparticles Mitigate Hypoxia-Induced Oxidative Damage by Improving Antioxidants Activities and Concentration of Osmolytes in Southern Highbush Blueberry Plants. <i>Agronomy</i> , 2021 , 11, 2143	3.6	2
43	Phytic acid: Blessing in disguise, a prime compound required for both plant and human nutrition. <i>Food Research International</i> , 2021 , 142, 110193	7	32
42	Glycemic index of starchy crops and factors affecting its digestibility: A review. <i>Trends in Food Science and Technology</i> , 2021 , 111, 741-755	15.3	26
41	A single nucleotide substitution in the SPDT transporter gene reduced phytic acid and increased mineral bioavailability from Rice grain (<i>Oryza sativa</i> L.). <i>Journal of Food Biochemistry</i> , 2021 , 45, e13822	3.3	5

40	Composition of Different Carbohydrate Fractions in Potatoes: Effect of Cooking and Cooling. <i>Starch/Staerke</i> , 2021 , 73, 2100015	2.3	4
39	Insights into the Interactions among Roots, Rhizosphere, and Rhizobacteria for Improving Plant Growth and Tolerance to Abiotic Stresses: A Review. <i>Cells</i> , 2021 , 10,	7.9	40
38	Salinity Stress in Potato: Understanding Physiological, Biochemical and Molecular Responses. <i>Life</i> , 2021 , 11,	3	14
37	Mechanistic insights on melatonin-mediated drought stress mitigation in plants. <i>Physiologia Plantarum</i> , 2021 , 172, 1212-1226	4.6	28
36	Impact of Starch Storage Condition on Glycemic Index and Resistant Starch of Cooked Potato (<i>Solanum tuberosum</i>) Tubers. <i>Starch/Staerke</i> , 2021 , 73, 1900281	2.3	12
35	Physiological and molecular insights on wheat responses to heat stress. <i>Plant Cell Reports</i> , 2021 , 1	5.1	8
34	The Addition of Selenium to the Nutrient Solution Decreases Cadmium Toxicity in Pepper Plants Grown under Hydroponic Conditions. <i>Agronomy</i> , 2021 , 11, 1905	3.6	3
33	Effect of potato apical leaf curl disease on glycemic index and resistant starch of potato (<i>Solanum tuberosum</i> L.) tubers. <i>Food Chemistry</i> , 2021 , 359, 129939	8.5	11
32	Impact of Fusarium dry rot on physicochemical attributes of potato tubers during postharvest storage. <i>Postharvest Biology and Technology</i> , 2021 , 181, 111638	6.2	10
31	Different Biofertilizers and Their Application for Sustainable Development 2021 , 31-48		
30	Water Conservation and Plant Survival Strategies of Rhizobacteria under Drought Stress. <i>Agronomy</i> , 2020 , 10, 1683	3.6	23
29	Addition of Pulses, Cooking Oils, and Vegetables Enhances Resistant Starch and Lowers the Glycemic Index of Rice (<i>Oryza sativa</i> L.). <i>Starch/Staerke</i> , 2020 , 72, 1900081	2.3	14
28	Emerging roles of melatonin in mitigating abiotic and biotic stresses of horticultural crops. <i>Scientia Horticulturae</i> , 2020 , 272, 109592	4.1	35
27	Recent updates on bioaccessibility of phytonutrients. <i>Trends in Food Science and Technology</i> , 2020 , 97, 366-380	15.3	55
26	Effect of cooking methods on glycemic index and in vitro bioaccessibility of potato (<i>Solanum tuberosum</i> L.) carbohydrates. <i>LWT - Food Science and Technology</i> , 2020 , 127, 109363	5.4	15
25	Minerals in Potato 2020 , 87-112		3
24	Potato Carotenoids 2020 , 151-171		1
23	Potato Carbohydrates 2020 , 13-36		0

22	Lipids in Potato 2020 , 73-85		1
21	Potato Proteins 2020 , 51-71		0
20	Biofortification of Vegetables 2020 , 105-129		8
19	Dietary Fibres in Potato 2020 , 37-50		4
18	Phytic acid content may affect starch digestibility and glycemic index value of rice (<i>Oryza sativa</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2020 , 100, 1598-1607	4.3	22
17	Potato Probiotics for Human Health 2020 , 271-287		2
16	Insights into the Physiological and Biochemical Impacts of Salt Stress on Plant Growth and Development. <i>Agronomy</i> , 2020 , 10, 938	3.6	55
15	Potato dry rot disease: current status, pathogenomics and management. <i>3 Biotech</i> , 2020 , 10, 503	2.8	12
14	Effect of Drought stress on Resistant starch content and Glycemic index of rice (<i>Oryza sativa</i> L.). <i>Starch/Staerke</i> , 2020 , 72, 1900229	2.3	5
13	Silicon Alleviate Hypoxia Stress by Improving Enzymatic and Non-enzymatic Antioxidants and Regulating Nutrient Uptake in Muscadine Grape (Michx.). <i>Frontiers in Plant Science</i> , 2020 , 11, 618873	6.2	8
12	Interactive effects of low phosphorus and elevated CO ₂ on root exudation and nutrient uptake in wheat is modified under sulphur nutrition. <i>Plant Physiology Reports</i> , 2019 , 24, 63-73	1.4	8
11	Differential response of hexaploid and tetraploid wheat to interactive effects of elevated [CO ₂] and low phosphorus. <i>Plant Cell Reports</i> , 2018 , 37, 1231-1244	5.1	18
10	Bioavailability of iron and zinc as affected by phytic acid content in rice grain. <i>Journal of Food Biochemistry</i> , 2017 , 41, e12413	3.3	30
9	Cultivation and post-harvest handling techniques of potential future crop [bngan[Dimocarpus longan Lour) in Asia pacific region-A review. <i>Research on Crops</i> , 2017 , 18, 384	3.3	3
8	Interactive Effect of Retrogradation and Addition of Pulses, Cooking Oil on Predicted Glycemic Index and Resistant Starch of Potato. <i>Starch/Staerke</i> ,2100221	2.3	2
7	Energy-Carbon Footprint vis-Evis System Productivity and Profitability of Diversified Crop Rotations in Semi-arid Plains of North-West India. <i>Journal of Soil Science and Plant Nutrition</i> ,1	3.2	2
6	First report of dry rot of potato caused by <i>Fusarium proliferatum</i> in India. <i>Journal of Plant Diseases and Protection</i> ,1	1.5	3
5	An Insight into Microbes Mediated Heavy Metal Detoxification in Plants: a Review. <i>Journal of Soil Science and Plant Nutrition</i> ,1	3.2	6

4	Protective Mechanisms of Melatonin Against Vanadium Phytotoxicity in Tomato Seedlings: Insights into Nutritional Status, Photosynthesis, Root Architecture System, and Antioxidant Machinery. <i>Journal of Plant Growth Regulation</i> ,1	4.7	8
3	Combinatorial interactive effect of vegetable and condiments with potato on starch digestibility and estimated in vitro glyceic response. <i>Journal of Food Measurement and Characterization</i> ,1	2.8	2
2	From source to sink: mechanistic insight of photoassimilates synthesis and partitioning under high temperature and elevated [CO ₂]. <i>Plant Molecular Biology</i> ,	4.6	2
1	Functional Fermented Probiotics, Prebiotics, and Synbiotics from Non-Dairy Products: A Perspective from Nutraceutical. <i>Molecular Nutrition and Food Research</i> ,2101059	5.9	1