

# Ajay Kumar Pandey

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,355  
citations

394286

19  
h-index

377752

34  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1720  
citing authors

#	ARTICLE	IF	CITATIONS
1	RNAi-Mediated Downregulation of Inositol Pentakisphosphate Kinase (IPK1) in Wheat Grains Decreases Phytic Acid Levels and Increases Fe and Zn Accumulation. <i>Frontiers in Plant Science</i> , 2018, 9, 259.	1.7	180
2	CRISPR/Cas9 directed editing of lycopene epsilon-cyclase modulates metabolic flux for $\beta$ -carotene biosynthesis in banana fruit. <i>Metabolic Engineering</i> , 2020, 59, 76-86.	3.6	144
3	Silencing of <i>ABCC13</i> transporter in wheat reveals its involvement in grain development, phytic acid accumulation and lateral root formation. <i>Journal of Experimental Botany</i> , 2016, 67, 4379-4389.	2.4	100
4	Molecular Characterization and Global Expression Analysis of Lectin Receptor Kinases in Bread Wheat ( <i>Triticum aestivum</i> ). <i>PLoS ONE</i> , 2016, 11, e0153925.	1.1	73
5	Differential expression of structural genes for the late phase of phytic acid biosynthesis in developing seeds of wheat ( <i>Triticum aestivum</i> L.). <i>Plant Science</i> , 2014, 224, 74-85.	1.7	68
6	Functional Analysis of the Asian Soybean Rust Resistance Pathway Mediated by <i>Rpp2</i> . <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 194-206.	1.4	66
7	Genome-wide analysis of oligopeptide transporters and detailed characterization of yellow stripe transporter genes in hexaploid wheat. <i>Functional and Integrative Genomics</i> , 2019, 19, 75-90.	1.4	60
8	ITS-RFLP and ITS sequence analysis of a foliar endophytic <i>Phyllosticta</i> from different tropical trees. <i>Mycological Research</i> , 2003, 107, 439-444.	2.5	58
9	Phosphate, phytate and phytases in plants: from fundamental knowledge gained in <i>Arabidopsis</i> to potential biotechnological applications in wheat. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 898-910.	5.1	53
10	Genome-wide identification and expression characterization of ABCC-MRP transporters in hexaploid wheat. <i>Frontiers in Plant Science</i> , 2015, 6, 488.	1.7	50
11	A hypersensitive response was induced by virulent bacteria in transgenic tobacco plants overexpressing a plant ferredoxin-like protein (PFLP). <i>Physiological and Molecular Plant Pathology</i> , 2004, 64, 103-110.	1.3	48
12	Integrative analysis of hexaploid wheat roots identifies signature components during iron starvation. <i>Journal of Experimental Botany</i> , 2019, 70, 6141-6161.	2.4	48
13	Disease resistance to bacterial pathogens affected by the amount of ferredoxin-I protein in plants. <i>Molecular Plant Pathology</i> , 2007, 8, 129-137.	2.0	41
14	The auxin-inducible GH3 homologue PpGH3.16 is downregulated in <i>Pinus pinaster</i> root systems on ectomycorrhizal symbiosis establishment. <i>New Phytologist</i> , 2006, 170, 391-400.	3.5	39
15	Overlapping transcriptional expression response of wheat zinc-induced facilitator-like transporters emphasize important role during Fe and Zn stress. <i>BMC Molecular Biology</i> , 2019, 20, 22.	3.0	35
16	Spotlight on the overlapping routes and partners for anthocyanin transport in plants. <i>Physiologia Plantarum</i> , 2021, 171, 868-881.	2.6	27
17	Expression of the Hypersensitive Response-assisting Protein in <i>Arabidopsis</i> Results in Harpin-dependent Hypersensitive Cell Death in Response to <i>Erwinia carotovora</i> . <i>Plant Molecular Biology</i> , 2005, 59, 771-780.	2.0	26
18	<i>Rpp1</i> Encodes a ULP1-NBS-LRR Protein That Controls Immunity to <i>Phakopsora pachyrhizi</i> in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 120-133.	1.4	26

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19	Gene Expression Pattern of Vacuolar-Iron Transporter-Like (VTL) Genes in Hexaploid Wheat during Metal Stress. <i>Plants</i> , 2020, 9, 229.	1.6	26
20	Characterization and Expression Analysis of Phytoene Synthase from Bread Wheat ( <i>Triticum aestivum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.1	23
21	ABC Transporter-Mediated Transport of Glutathione Conjugates Enhances Seed Yield and Quality in Chickpea. <i>Plant Physiology</i> , 2019, 180, 253-275.	2.3	21
22	Hormonal Regulation and Expression Profiles of Wheat Genes Involved during Phytic Acid Biosynthesis Pathway. <i>Plants</i> , 2015, 4, 298-319.	1.6	20
23	The auxin responsive gene Pp-C61 is up-regulated in <i>Pinus pinaster</i> roots following inoculation with ectomycorrhizal fungi. <i>Plant, Cell and Environment</i> , 2003, 26, 681-691.	2.8	15
24	Spatio-temporal distribution of micronutrients in rice grains and its regulation. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 490-507.	5.1	14
25	Dissecting the nutrient partitioning mechanism in rice grain using spatially resolved gene expression profiling. <i>Journal of Experimental Botany</i> , 2021, 72, 2212-2230.	2.4	13
26	Identification of PTM5 protein interaction partners, a MADS-box gene involved in aspen tree vegetative development. <i>Gene</i> , 2007, 391, 209-222.	1.0	12
27	Biochemical characterization and spatio-temporal expression of myo-inositol oxygenase (MIOX) from wheat ( <i>Triticum aestivum</i> L.). <i>Plant Gene</i> , 2015, 4, 10-19.	1.4	12
28	Physiological and molecular response of colored wheat seedlings against phosphate deficiency is linked to accumulation of distinct anthocyanins. <i>Plant Physiology and Biochemistry</i> , 2022, 170, 338-349.	2.8	10
29	Phosphorus Transport in Arabidopsis and Wheat: Emerging Strategies to Improve P Pool in Seeds. <i>Agriculture (Switzerland)</i> , 2018, 8, 27.	1.4	9
30	Physiological and molecular responses to combinatorial iron and phosphate deficiencies in hexaploid wheat seedlings. <i>Genomics</i> , 2021, 113, 3935-3950.	1.3	8
31	Carotenoid cleavage dioxygenases (HD-CCD1A and B) contribute as strong negative regulators of $\beta$ -carotene in Indian bread wheat (cv. HD2967). <i>3 Biotech</i> , 2021, 11, 221.	1.1	5
32	Decoding the genome of superior chapatti quality Indian wheat variety $\hat{C}$ 306 $\hat{C}$ ™ unravelled novel genomic variants for chapatti and nutrition quality related genes. <i>Genomics</i> , 2021, 113, 1919-1929.	1.3	5
33	Wheat Quality Improvement for Micronutrients. , 2021, , 43-69.		4
34	Diverse Functions of Plant Zinc-Induced Facilitator-like Transporter for Their Emerging Roles in Crop Trait Enhancement. <i>Plants</i> , 2022, 11, 102.	1.6	4
35	Wheat inositol pyrophosphate kinase TaVH2-3B modulates cell-wall composition and drought tolerance in Arabidopsis. <i>BMC Biology</i> , 2021, 19, 261.	1.7	4
36	Strategies and Bottlenecks in Hexaploid Wheat to Mobilize Soil Iron to Grains. <i>Frontiers in Plant Science</i> , 2022, 13, 863849.	1.7	2

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37	Multi-metal tolerance of DHHC palmitoyl transferase-like protein isolated from metal contaminated soil. <i>Ecotoxicology</i> , 2021, 30, 67-79.	1.1	1