

James C R Stangoulis

List of Publications by Citations

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86
papers

3,596
citations

33
h-index

58
g-index

89
ext. papers

4,275
ext. citations

4.3
avg, IF

5.28
L-index

#	Paper	IF	Citations
86	Constitutive overexpression of the OsNAS gene family reveals single-gene strategies for effective iron- and zinc-biofortification of rice endosperm. <i>PLoS ONE</i> , 2011 , 6, e24476	3.7	260
85	A critical analysis of the causes of boron toxicity in plants. <i>Plant, Cell and Environment</i> , 2004 , 27, 1405-1484	4.4	238
84	Biofortified indica rice attains iron and zinc nutrition dietary targets in the field. <i>Scientific Reports</i> , 2016 , 6, 19792	4.9	181
83	Quantitative trait loci for phytate in rice grain and their relationship with grain micronutrient content. <i>Euphytica</i> , 2007 , 154, 289-294	2.1	174
82	Selenium concentration in wheat grain: Is there sufficient genotypic variation to use in breeding?. <i>Plant and Soil</i> , 2005 , 269, 369-380	4.2	147
81	High-selenium wheat: biofortification for better health. <i>Nutrition Research Reviews</i> , 2003 , 16, 45-60	7	142
80	Nutrient composition of important fish species in Bangladesh and potential contribution to recommended nutrient intakes. <i>Journal of Food Composition and Analysis</i> , 2015 , 42, 120-133	4.1	139
79	Selenium increases seed production in Brassica. <i>Plant and Soil</i> , 2009 , 318, 73-80	4.2	138
78	Energy-dispersive X-ray fluorescence analysis of zinc and iron concentration in rice and pearl millet grain. <i>Plant and Soil</i> , 2012 , 361, 251-260	4.2	109
77	Energy-dispersive X-ray fluorescence spectrometry as a tool for zinc, iron and selenium analysis in whole grain wheat. <i>Plant and Soil</i> , 2012 , 361, 261-269	4.2	91
76	Kinetic analysis of boron transport in Chara. <i>Planta</i> , 2001 , 213, 142-6	4.7	87
75	Genotypic variation in wheat grain fructan content revealed by a simplified HPLC method. <i>Journal of Cereal Science</i> , 2008 , 48, 369-378	3.8	84
74	Genetic dissection of grain zinc concentration in spring wheat for mainstreaming biofortification in CIMMYT wheat breeding. <i>Scientific Reports</i> , 2018 , 8, 13526	4.9	72
73	Selenium in Australia: selenium status and biofortification of wheat for better health. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005 , 19, 75-82	4.1	71
72	Tolerance of wheat (<i>Triticum aestivum</i> L.) to high soil and solution selenium levels. <i>Plant and Soil</i> , 2005 , 270, 179-188	4.2	67
71	Foliar Boron Application Improves Flower Fertility and Fruit Set of Olive. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2001 , 36, 714-716	2.4	65
70	Iron and zinc concentration of native Andean potato cultivars from a human nutrition perspective. <i>Journal of the Science of Food and Agriculture</i> , 2007 , 87, 668-675	4.3	63

69	Selenium distribution in wheat grain, and the effect of postharvest processing on wheat selenium content. <i>Biological Trace Element Research</i> , 2005 , 103, 155-68	4.5	61
68	Molecular mapping of quantitative trait loci for zinc, iron and protein content in the grains of hexaploid wheat. <i>Euphytica</i> , 2016 , 207, 563-570	2.1	56
67	Localization of iron in rice grain using synchrotron X-ray fluorescence microscopy and high resolution secondary ion mass spectrometry. <i>Journal of Cereal Science</i> , 2014 , 59, 173-180	3.8	54
66	Natural variation for Fe-efficiency is associated with upregulation of Strategy I mechanisms and enhanced citrate and ethylene synthesis in <i>Pisum sativum</i> L. <i>Planta</i> , 2012 , 235, 1409-19	4.7	50
65	The mechanism of boron tolerance for maintenance of root growth in barley (<i>Hordeum vulgare</i> L.). <i>Plant, Cell and Environment</i> , 2007 , 30, 984-93	8.4	50
64	Quantitative trait loci for grain fructan concentration in wheat (<i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2008 , 117, 701-9	6	49
63	Temporal dynamics in wheat grain zinc distribution: is sink limitation the key?. <i>Annals of Botany</i> , 2011 , 107, 927-37	4.1	48
62	The effect of wheat prebiotics on the gut bacterial population and iron status of iron deficient broiler chickens. <i>Nutrition Journal</i> , 2014 , 13, 58	4.3	45
61	QTL Mapping of Grain Zn and Fe Concentrations in Two Hexaploid Wheat RIL Populations with Ample Transgressive Segregation. <i>Frontiers in Plant Science</i> , 2017 , 8, 1800	6.2	44
60	Mechanisms associated with Fe-deficiency tolerance and signaling in shoots of <i>Pisum sativum</i> . <i>Physiologia Plantarum</i> , 2013 , 147, 381-95	4.6	41
59	Zinc-deficiency resistance and biofortification in plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 311-319	2.3	40
58	The mechanism of boron mobility in wheat and canola phloem. <i>Plant Physiology</i> , 2010 , 153, 876-81	6.6	37
57	Genetic mapping of QTL for agronomic traits and grain mineral elements in rice. <i>Crop Journal</i> , 2019 , 7, 560-572	4.6	35
56	Trace element uptake and distribution in plants. <i>Journal of Nutrition</i> , 2003 , 133, 1502S-5S	4.1	35
55	Wheat grain quality under increasing atmospheric CO2 concentrations in a semi-arid cropping system. <i>Journal of Cereal Science</i> , 2012 , 56, 684-690	3.8	34
54	Semi-quantitative analysis for selecting Fe- and Zn-dense genotypes of staple food crops. <i>Journal of Food Composition and Analysis</i> , 2007 , 20, 496-505	4.1	34
53	Genetic dissection of zinc, iron, copper, manganese and phosphorus in wheat (<i>Triticum aestivum</i> L.) grain and rachis at two developmental stages. <i>Plant Science</i> , 2020 , 291, 110338	5.3	31
52	Alterations in the Gut (<i>Gallus gallus</i>) Microbiota Following the Consumption of Zinc Biofortified Wheat (<i>Triticum aestivum</i>)-Based Diet. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6291-6299	5.7	30

51	Metabolomics of capsicum ripening reveals modification of the ethylene related-pathway and carbon metabolism. <i>Postharvest Biology and Technology</i> , 2014 , 89, 19-31	6.2	30
50	Trends in selenium status of South Australians. <i>Medical Journal of Australia</i> , 2004 , 180, 383-6	4	30
49	Boron efficiency in oilseed rape: I. Genotypic variation demonstrated in field and pot grown Brassica napus L. and Brassica juncea L.. <i>Plant and Soil</i> , 2000 , 225, 243-251	4.2	30
48	The Linoleic Acid: Dihomo- Δ Linolenic Acid Ratio (LA:DGLA)-An Emerging Biomarker of Zn Status. <i>Nutrients</i> , 2017 , 9,	6.7	28
47	Increased grain yield and micronutrient concentration in transgenic winter wheat by ectopic expression of a barley sucrose transporter. <i>Journal of Cereal Science</i> , 2014 , 60, 75-81	3.8	27
46	An initial evaluation of newly proposed biomarker of zinc status in humans - linoleic acid: dihydro- Δ linolenic acid (LA:DGLA) ratio. <i>Clinical Nutrition ESPEN</i> , 2016 , 15, 85-92	1.3	25
45	Metabolite profiling of wheat (<i>Triticum aestivum</i> L.) phloem exudate. <i>Plant Methods</i> , 2014 , 10, 27	5.8	24
44	An energy-dispersive X-ray fluorescence method for analyzing Fe and Zn in common bean, maize and cowpea biofortification programs. <i>Plant and Soil</i> , 2017 , 419, 457-466	4.2	24
43	Identification of Quantitative Trait Loci for Grain Arabinoxylan Concentration in Bread Wheat. <i>Crop Science</i> , 2011 , 51, 1143-1150	2.4	24
42	Whole plant response of crop and weed species to high subsoil boron. <i>Australian Journal of Agricultural Research</i> , 2006 , 57, 761		24
41	Measurement of haem and total iron in fish, shrimp and prawn using ICP-MS: Implications for dietary iron intake calculations. <i>Food Chemistry</i> , 2016 , 201, 222-9	8.5	23
40	Clusters of genes encoding fructan biosynthesizing enzymes in wheat and barley. <i>Plant Molecular Biology</i> , 2012 , 80, 299-314	4.6	23
39	Characterisation of ethylene pathway components in non-climacteric capsicum. <i>BMC Plant Biology</i> , 2013 , 13, 191	5.3	21
38	Growth and physiological responses of Chinese cabbage and radish to long-term exposure to elevated carbon dioxide and temperature. <i>Horticulture Environment and Biotechnology</i> , 2011 , 52, 376-386		21
37	New perspectives on the regulation of iron absorption via cellular zinc concentrations in humans. <i>Critical Reviews in Food Science and Nutrition</i> , 2017 , 57, 2128-2143	11.5	20
36	Boron Toxicity in Plants and Animals 2002 , 227-240		19
35	Linoleic Acid:Dihomo- Δ Linolenic Acid Ratio Predicts the Efficacy of Zn-Biofortified Wheat in Chicken (<i>Gallus gallus</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 1394-1400	5.7	18
34	Changes in the content of fructans and arabinoxylans during baking processes of leavened and unleavened breads. <i>European Food Research and Technology</i> , 2014 , 239, 803-811	3.4	18

33	Zinc efficiency of oilseed rape (t Brassica napus and t B. juncea) genotypes. <i>Plant and Soil</i> , 1997 , 191, 123-132	4.2	18
32	Boron efficiency in oilseed rape: II. Development of a rapid lab-based screening technique. <i>Plant and Soil</i> , 2000 , 225, 253-261	4.2	18
31	Exploiting micronutrient interaction to optimize biofortification programs: the case for inclusion of selenium and iodine in the HarvestPlus program. <i>Nutrition Reviews</i> , 2004 , 62, 247-52	6.4	18
30	Variation in root system architecture and morphology of two wheat genotypes is a predictor of their tolerance to phosphorus deficiency. <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1	2.6	17
29	Genotypic Variation in the Root and Shoot Metabolite Profiles of Wheat (L.) Indicate Sustained, Preferential Carbon Allocation as a Potential Mechanism in Phosphorus Efficiency. <i>Frontiers in Plant Science</i> , 2019 , 10, 995	6.2	17
28	The influence of food consumption and socio-economic factors on the relationship between zinc and iron intake and status in a healthy population. <i>Public Health Nutrition</i> , 2017 , 20, 2486-2498	3.3	16
27	Chlorosis correction and agronomic biofortification in field peas through foliar application of iron fertilizers under Fe deficiency. <i>Journal of Plant Interactions</i> , 2016 , 11, 1-4	3.8	15
26	Proteomic analysis during capsicum ripening reveals differential expression of ACC oxidase isoform 4 and other candidates. <i>Functional Plant Biology</i> , 2013 , 40, 1115-1128	2.7	15
25	The impact of foliar applied zinc fertilizer on zinc and phytate accumulation in dorsal and ventral grain sections of four thai rice varieties with different grain zinc. <i>Journal of Cereal Science</i> , 2018 , 79, 6-12 ^{3.8}		13
24	Measuring Genotypic Variation in Wheat Seed Iron First Requires Stringent Protocols to Minimize Soil Iron Contamination. <i>Crop Science</i> , 2014 , 54, 255-264	2.4	13
23	Zinc-boron interaction effects in oilseed rape. <i>Journal of Plant Nutrition</i> , 1998 , 21, 2231-2243	2.3	13
22	The efficiency of boron utilisation in canola. <i>Functional Plant Biology</i> , 2001 , 28, 1109	2.7	11
21	Analysis of the Anti-Cancer Effects of Cincau Extract (Premna oblongifolia Merr) and Other Types of Non-Digestible Fibre Using Faecal Fermentation Supernatants and Caco-2 Cells as a Model of the Human Colon. <i>Nutrients</i> , 2017 , 9,	6.7	10
20	Nutrient variability in phloem: examining changes in K, Mg, Zn and Fe concentration during grain loading in common wheat (Triticum aestivum). <i>Physiologia Plantarum</i> , 2014 , 152, 729-37	4.6	9
19	Improved techniques for measurement of nanolitre volumes of phloem exudate from aphid stylectomy. <i>Plant Methods</i> , 2013 , 9, 18	5.8	8
18	Changes in the Elemental and Metabolite Profile of Wheat Phloem Sap during Grain Filling Indicate a Dynamic between Plant Maturity and Time of Day. <i>Metabolites</i> , 2018 , 8,	5.6	8
17	High-throughput measurement methodologies for developing nutrient-dense crops. <i>African Journal of Food, Agriculture, Nutrition and Development</i> , 2017 , 17, 11941-11954	1.5	6
16	Calcium Biofortification of Crops-Challenges and Projected Benefits. <i>Frontiers in Plant Science</i> , 2021 , 12, 669053	6.2	5

15	THE EFFECT OF FOLIAR-APPLIED CA AND SI ON THE SEVERITY OF POWDERY MILDEW IN TWO STRAWBERRY CULTIVARS. <i>Acta Horticulturae</i> , 2006 , 135-140	0.3	4
14	Non-matrix Matched Glass Disk Calibration Standards Improve XRF Micronutrient Analysis of Wheat Grain across Five Laboratories in India. <i>Frontiers in Plant Science</i> , 2016 , 7, 784	6.2	4
13	Biofortification of major crop plants with iron and zinc - achievements and future directions. <i>Plant and Soil</i> ,1	4.2	4
12	Maternal Investment in Diamond Firetails <i>Stagonopleura guttata</i> : Female Spot Numbers Predict Egg Volume and Yolk Lutein Content. <i>Acta Ornithologica</i> , 2013 , 48, 253-261	0.9	3
11	High-resolution genome-wide association study pinpoints metal transporter and chelator genes involved in the genetic control of element levels in maize grain. <i>G3: Genes, Genomes, Genetics</i> , 2021 , 11,	3.2	3
10	Genomic selection can accelerate the biofortification of spring wheat. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 3339-3350	6	3
9	Physiological and morphological responses to boron deficient chinese cabbage. <i>Horticulture Environment and Biotechnology</i> , 2016 , 57, 355-363	2	3
8	Effects of Dietary Fibre from the Traditional Indonesian Food, Green Cincau (Merr.) on Preneoplastic Lesions and Short Chain Fatty Acid Production in an Azoxymethane Rat Model of Colon Cancer. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	3
7	Role of sulphur conferring differential tolerance to iron deficiency in <i>Pisum sativum</i> . <i>Biologia (Poland)</i> , 2015 , 70, 922-928	1.5	2
6	Identification of genomic regions conferring rust resistance and enhanced mineral accumulation in a HarvestPlus Association Mapping Panel of wheat.. <i>Theoretical and Applied Genetics</i> , 2022 , 1	6	2
5	EDXRF for screening micronutrients in lentil and sorghum biofortification breeding programs. <i>Plant and Soil</i> , 2021 , 463, 461	4.2	2
4	Screening Ca concentration in staple food crops with energy dispersive x-ray fluorescence (EDXRF). <i>Plant and Soil</i> ,1	4.2	1
3	Higher Photochemical Quenching and Better Maintenance of Carbon Dioxide Fixation Are Key Traits for Phosphorus Use Efficiency in the Wheat Breeding Line, RAC875.. <i>Frontiers in Plant Science</i> , 2021 , 12, 816211	6.2	1
2	Dietary Zn deficiency, the current situation, and potential solutions. <i>Nutrition Research Reviews</i> ,1-44	7	0
1	A high-resolution genome-wide association study of the grain ionome and agronomic traits in rice <i>Oryza sativa</i> subsp. <i>indica</i> . <i>Scientific Reports</i> , 2021 , 11, 19230	4.9	0