

# James C R Stangoulis

## List of Publications by Year in descending order

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88  
papers

4,887  
citations

101384

36  
h-index

98622

67  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4880  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.1	362
2	A critical analysis of the causes of boron toxicity in plants. <i>Plant, Cell and Environment</i> , 2004, 27, 1405-1414.	2.8	303
3	Biofortified indica rice attains iron and zinc nutrition dietary targets in the field. <i>Scientific Reports</i> , 2016, 6, 19792.	1.6	293
4	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.	1.9	223
5	Quantitative trait loci for phytate in rice grain and their relationship with grain micronutrient content. <i>Euphytica</i> , 2007, 154, 289-294.	0.6	219
6	Selenium concentration in wheat grain: Is there sufficient genotypic variation to use in breeding?. <i>Plant and Soil</i> , 2005, 269, 369-380.	1.8	175
7	Selenium increases seed production in Brassica. <i>Plant and Soil</i> , 2009, 318, 73-80.	1.8	175
8	High-selenium wheat: biofortification for better health. <i>Nutrition Research Reviews</i> , 2003, 16, 45.	2.1	169
9	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.	1.8	134
10	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.	1.8	116
11	Genetic dissection of grain zinc concentration in spring wheat for mainstreaming biofortification in CIMMYT wheat breeding. <i>Scientific Reports</i> , 2018, 8, 13526.	1.6	109
12	Kinetic analysis of boron transport in Chara. <i>Planta</i> , 2001, 213, 142-146.	1.6	98
13	Genotypic variation in wheat grain fructan content revealed by a simplified HPLC method. <i>Journal of Cereal Science</i> , 2008, 48, 369-378.	1.8	95
14	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.	0.6	93
15	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.	1.5	90
16	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.	0.5	87
17	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.	1.7	81
18	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.	1.7	75

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19	Selenium Distribution in Wheat Grain, and the Effect of Postharvest Processing on Wheat Selenium Content. <i>Biological Trace Element Research</i> , 2005, 103, 155-168.	1.9	74
20	Tolerance of wheat ( <i>Triticum aestivum</i> L.) to high soil and solution selenium levels. <i>Plant and Soil</i> , 2005, 270, 179-188.	1.8	72
21	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.	1.8	65
22	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, 1409-1419.	1.6	64
23	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.	1.5	63
24	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, 984-993.	2.8	58
25	Genetic mapping of QTL for agronomic traits and grain mineral elements in rice. <i>Crop Journal</i> , 2019, 7, 560-572.	2.3	57
26	Temporal dynamics in wheat grain zinc distribution: is sink limitation the key?. <i>Annals of Botany</i> , 2011, 107, 927-937.	1.4	56
27	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.	1.7	55
28	Quantitative trait loci for grain fructan concentration in wheat ( <i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2008, 117, 701-709.	1.8	54
29	Mechanisms associated with Fe-deficiency tolerance and signaling in shoots of <i>Pisum sativum</i> . <i>Physiologia Plantarum</i> , 2013, 147, 381-395.	2.6	53
30	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.	2.4	53
31	Zinc-deficiency resistance and biofortification in plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 311-319.	1.1	47
32	Trace Element Uptake and Distribution in Plants. <i>Journal of Nutrition</i> , 2003, 133, 1502S-1505S.	1.3	46
33	The Mechanism of Boron Mobility in Wheat and Canola Phloem. <i>Plant Physiology</i> , 2010, 153, 876-881.	2.3	46
34	Wheat grain quality under increasing atmospheric CO <sub>2</sub> concentrations in a semi-arid cropping system. <i>Journal of Cereal Science</i> , 2012, 56, 684-690.	1.8	46
35	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.	1.9	40
36	Metabolomics of capsicum ripening reveals modification of the ethylene related-pathway and carbon metabolism. <i>Postharvest Biology and Technology</i> , 2014, 89, 19-31.	2.9	40

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37	The Linoleic Acid: Dihomo- $\hat{3}$ -Linolenic Acid Ratio (LA:DGLA) An Emerging Biomarker of Zn Status. <i>Nutrients</i> , 2017, 9, 825.	1.7	39
38	Biofortification of major crop plants with iron and zinc - achievements and future directions. <i>Plant and Soil</i> , 2022, 474, 57-76.	1.8	37
39	Title is missing!. <i>Plant and Soil</i> , 2000, 225, 243-251.	1.8	36
40	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.	5.4	35
41	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.	1.0	35
42	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.	1.8	33
43	Trends in selenium status of South Australians. <i>Medical Journal of Australia</i> , 2004, 180, 383-386.	0.8	32
44	An initial evaluation of newly proposed biomarker of zinc status in humans - linoleic acid: dihydro- $\hat{3}$ -linolenic acid (LA:DGLA) ratio. <i>Clinical Nutrition ESPEN</i> , 2016, 15, 85-92.	0.5	32
45	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, 222-229.	4.2	32
46	Genotypic Variation in the Root and Shoot Metabolite Profiles of Wheat ( <i>Triticum aestivum</i> L.) Indicate Sustained, Preferential Carbon Allocation as a Potential Mechanism in Phosphorus Efficiency. <i>Frontiers in Plant Science</i> , 2019, 10, 995.	1.7	32
47	Boron efficiency in oilseed rape: II. Development of a rapid lab-based screening technique. <i>Plant and Soil</i> , 2000, 225, 253-261.	1.8	31
48	Identification of Quantitative Trait Loci for Grain Arabinoxylan Concentration in Bread Wheat. <i>Crop Science</i> , 2011, 51, 1143-1150.	0.8	31
49	Metabolite profiling of wheat ( <i>Triticum aestivum</i> L.) phloem exudate. <i>Plant Methods</i> , 2014, 10, 27.	1.9	31
50	Clusters of genes encoding fructan biosynthesizing enzymes in wheat and barley. <i>Plant Molecular Biology</i> , 2012, 80, 299-314.	2.0	29
51	Characterisation of ethylene pathway components in non-climacteric capsicum. <i>BMC Plant Biology</i> , 2013, 13, 191.	1.6	29
52	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.	1.6	28
53	Whole plant response of crop and weed species to high subsoil boron. <i>Australian Journal of Agricultural Research</i> , 2006, 57, 761.	1.5	27
54	An energy-dispersive X-ray fluorescence method for analysing Fe and Zn in common bean, maize and cowpea biofortification programs. <i>Plant and Soil</i> , 2017, 419, 457-466.	1.8	27

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55	The efficiency of boron utilisation in canola. <i>Functional Plant Biology</i> , 2001, 28, 1109.	1.1	27
56	Zinc efficiency of oilseed rape (t <i>Brassica napus</i> and t <i>B. juncea</i> ) genotypes. <i>Plant and Soil</i> , 1997, 191, 123-132.	1.8	25
57	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.	0.7	25
58	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.	1.1	25
59	Linoleic Acid:Dihomo- $\hat{3}$ -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.	2.4	23
60	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.	1.8	22
61	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, 247-252.	2.6	22
62	Zinc&boron interaction effects in oilseed rape. <i>Journal of Plant Nutrition</i> , 1998, 21, 2231-2243.	0.9	20
63	Boron Toxicity in Plants and Animals. , 2002, , 227-240.		19
64	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.	1.0	19
65	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, .	0.8	18
66	Proteomic analysis during capsicum ripening reveals differential expression of ACC oxidase isoform 4 and other candidates. <i>Functional Plant Biology</i> , 2013, 40, 1115.	1.1	16
67	Measuring Genotypic Variation in Wheat Seed Iron First Requires Stringent Protocols to Minimize Soil Iron Contamination. <i>Crop Science</i> , 2014, 54, 255-264.	0.8	16
68	Nutrient variability in phloem: examining changes in K, Mg, Zn and Fe concentration during grain loading in common wheat ( <i>Triticum aestivum</i> ). <i>Physiologia Plantarum</i> , 2014, 152, 729-737.	2.6	14
69	Analysis of the Anti-Cancer Effects of Cincau Extract ( <i>Premna oblongifolia</i> 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, 355.	1.7	12
70	EDXRF for screening micronutrients in lentil and sorghum biofortification breeding programs. <i>Plant and Soil</i> , 2021, 463, 461-469.	1.8	12
71	Genomic selection can accelerate the biofortification of spring wheat. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3339-3350.	1.8	11
72	Improved techniques for measurement of nanolitre volumes of phloem exudate from aphid stylectomy. <i>Plant Methods</i> , 2013, 9, 18.	1.9	10

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73	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, 53.	1.3	10
74	Calcium Biofortification of Crops—Challenges and Projected Benefits. <i>Frontiers in Plant Science</i> , 2021, 12, 669053.	1.7	9
75	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.	1.6	9
76	Genomic prediction of zinc-biofortification potential in rice gene bank accessions. <i>Theoretical and Applied Genetics</i> , 2022, 135, 2265-2278.	1.8	9
77	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.	0.1	8
78	High-throughput measurement methodologies for developing nutrient-dense crops. <i>African Journal of Food, Agriculture, Nutrition and Development</i> , 2017, 17, 11941-11954.	0.1	8
79	Effects of Dietary Fibre from the Traditional Indonesian Food, Green Cincau ( <i>Premna oblongifolia</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc of Colon Cancer. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2593.	1.8	7
80	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.	1.7	6
81	Physiological and morphological responses to boron deficient chinese cabbage. <i>Horticulture Environment and Biotechnology</i> , 2016, 57, 355-363.	0.7	5
82	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, 135, 865-882.	1.8	4
83	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.	1.7	4
84	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.	0.1	3
85	Dietary Zn deficiency, the current situation, and potential solutions. <i>Nutrition Research Reviews</i> , 0, , 1-44.	2.1	3
86	Role of sulphur conferring differential tolerance to iron deficiency in <i>Pisum sativum</i> . <i>Biologia (Poland)</i> , 2015, 70, 922-928.	0.8	2
87	Screening Ca concentration in staple food crops with energy dispersive x-ray fluorescence (EDXRF). <i>Plant and Soil</i> , 0, , 1.	1.8	2
88	Trace Element Uptake and Distribution in Plants. <i>ChemInform</i> , 2003, 34, no.	0.1	0