

# Gareth J Norton

## List of Publications by Year in descending order

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69  
papers

6,244  
citations

109321

35  
h-index

102487

66  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide association mapping reveals a rich genetic architecture of complex traits in <i>Oryza sativa</i> . <i>Nature Communications</i> , 2011, 2, 467.	12.8	1,230
2	Assessing the influence of compost and biochar amendments on the mobility and toxicity of metals and arsenic in a naturally contaminated mine soil. <i>Environmental Pollution</i> , 2014, 186, 195-202.	7.5	369
3	Variation in Rice Cadmium Related to Human Exposure. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5613-5618.	10.0	365
4	Genetic mapping of the rice ionome in leaves and grain: identification of QTLs for 17 elements including arsenic, cadmium, iron and selenium. <i>Plant and Soil</i> , 2010, 329, 139-153.	3.7	275
5	Grain Unloading of Arsenic Species in Rice. <i>Plant Physiology</i> , 2009, 152, 309-319.	4.8	268
6	Genome Wide Association Mapping of Grain Arsenic, Copper, Molybdenum and Zinc in Rice ( <i>Oryza</i> ) Tj ETQq0 0 0 rgBT /Overlook 10 Tf 5	2.5	228
7	Rice-arsenate interactions in hydroponics: whole genome transcriptional analysis. <i>Journal of Experimental Botany</i> , 2008, 59, 2267-2276.	4.8	210
8	Organic Matter-Solid Phase Interactions Are Critical for Predicting Arsenic Release and Plant Uptake in Bangladesh Paddy Soils. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6080-6087.	10.0	181
9	Roles for root iron plaque in sequestration and uptake of heavy metals and metalloids in aquatic and wetland plants. <i>Metallomics</i> , 2014, 6, 1789-1800.	2.4	177
10	Sulfur mediated reduction of arsenic toxicity involves efficient thiol metabolism and the antioxidant defense system in rice. <i>Journal of Hazardous Materials</i> , 2015, 298, 241-251.	12.4	173
11	Phloem transport of arsenic species from flag leaf to grain during grain filling. <i>New Phytologist</i> , 2011, 192, 87-98.	7.3	170
12	Identification of Low Inorganic and Total Grain Arsenic Rice Cultivars from Bangladesh. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6070-6075.	10.0	151
13	Environmental and Genetic Control of Arsenic Accumulation and Speciation in Rice Grain: Comparing a Range of Common Cultivars Grown in Contaminated Sites Across Bangladesh, China, and India. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8381-8386.	10.0	146
14	Variation in grain arsenic assessed in a diverse panel of rice ( <i>Oryza sativa</i> ) grown in multiple sites. <i>New Phytologist</i> , 2012, 193, 650-664.	7.3	126
15	Impact of alternate wetting and drying on rice physiology, grain production, and grain quality. <i>Field Crops Research</i> , 2017, 205, 1-13.	5.1	123
16	Inorganic arsenic contents in rice-based infant foods from Spain, UK, China and USA. <i>Environmental Pollution</i> , 2012, 163, 77-83.	7.5	121
17	A protective role for nitric oxide and salicylic acid for arsenite phytotoxicity in rice ( <i>Oryza sativa</i> L.). <i>Plant Physiology and Biochemistry</i> , 2017, 115, 163-173.	5.8	118
18	Improved resolution in the position of drought-related QTLs in a single mapping population of rice by meta-analysis. <i>BMC Genomics</i> , 2009, 10, 276.	2.8	115

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19	Effect of selenium fertilization on the accumulation of cadmium and lead in rice plants. <i>Plant and Soil</i> , 2014, 384, 131-140.	3.7	105
20	The dynamics of arsenic in four paddy fields in the Bengal delta. <i>Environmental Pollution</i> , 2011, 159, 947-953.	7.5	95
21	Grain Accumulation of Selenium Species in Rice ( <i>Oryza sativa</i> L.). <i>Environmental Science &amp; Technology</i> , 2012, 46, 5557-5564.	10.0	82
22	Effect of organic matter amendment, arsenic amendment and water management regime on rice grain arsenic species. <i>Environmental Pollution</i> , 2013, 177, 38-47.	7.5	82
23	Lead in rice: Analysis of baseline lead levels in market and field collected rice grains. <i>Science of the Total Environment</i> , 2014, 485-486, 428-434.	8.0	78
24	Assessing the Labile Arsenic Pool in Contaminated Paddy Soils by Isotopic Dilution Techniques and Simple Extractions. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4262-4269.	10.0	75
25	Alternate wetting and drying irrigation for rice in Bangladesh: Is it sustainable and has plant breeding something to offer?. <i>Food and Energy Security</i> , 2013, 2, 120-129.	4.3	74
26	Assessing the genetic diversity of rice originating from Bangladesh, Assam and West Bengal. <i>Rice</i> , 2015, 8, 35.	4.0	63
27	Rice Grain Cadmium Concentrations in the Global Supply-Chain. <i>Exposure and Health</i> , 2020, 12, 869-876.	4.9	63
28	Identification of tetramethylarsonium in rice grains with elevated arsenic content. <i>Journal of Environmental Monitoring</i> , 2011, 13, 32-34.	2.1	56
29	Cadmium and lead in vegetable and fruit produce selected from specific regional areas of the UK. <i>Science of the Total Environment</i> , 2015, 533, 520-527.	8.0	55
30	Arsenic Shoot-Grain Relationships in Field Grown Rice Cultivars. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1471-1477.	10.0	54
31	Identification of quantitative trait loci for rice grain element composition on an arsenic impacted soil: Influence of flowering time on genetic loci. <i>Annals of Applied Biology</i> , 2012, 161, 46-56.	2.5	49
32	Biomass and elemental concentrations of 22 rice cultivars grown under alternate wetting and drying conditions at three field sites in Bangladesh. <i>Food and Energy Security</i> , 2017, 6, 98-112.	4.3	49
33	Arsenic affects essential and non-essential amino acids differentially in rice grains: Inadequacy of amino acids in rice based diet. <i>Environment International</i> , 2012, 46, 16-22.	10.0	44
34	Genome Wide Association Mapping of Grain and Straw Biomass Traits in the Rice Bengal and Assam Aus Panel (BAAP) Grown Under Alternate Wetting and Drying and Permanently Flooded Irrigation. <i>Frontiers in Plant Science</i> , 2018, 9, 1223.	3.6	41
35	A bioinformatic and transcriptomic approach to identifying positional candidate genes without fine mapping: an example using rice root-growth QTLs. <i>Genomics</i> , 2008, 92, 344-352.	2.9	39
36	Essential and toxic elements in infant foods from Spain, UK, China and USA. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2447.	2.1	39

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37	Rice–arsenate interactions in hydroponics: a three-gene model for tolerance. <i>Journal of Experimental Botany</i> , 2008, 59, 2277-2284.	4.8	34
38	Mapping of quantitative trait loci for seminal root morphology and gravitropic response in rice. <i>Euphytica</i> , 2009, 166, 229-237.	1.2	32
39	Spatial Heterogeneity and Kinetic Regulation of Arsenic Dynamics in Mangrove Sediments: The Sundarbans, Bangladesh. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8645-8652.	10.0	31
40	Poisoning from lead gunshot: still a threat to wild waterbirds in Britain. <i>European Journal of Wildlife Research</i> , 2013, 59, 195-204.	1.4	30
41	Simultaneous stimulation of arsenic methylation and inhibition of cadmium bioaccumulation in rice grain using zero valent iron and alternate wetting and drying water management. <i>Science of the Total Environment</i> , 2020, 711, 134696.	8.0	30
42	Physiological responses and transcriptome analyses of upland rice following exposure to arsenite and arsenate. <i>Environmental and Experimental Botany</i> , 2021, 183, 104366.	4.2	30
43	Arsenic Influence on Genetic Variation in Grain Trace-Element Nutrient Content in Bengal Delta Grown Rice. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8284-8288.	10.0	29
44	Arsenic Speciation and Localization in Horticultural Produce Grown in a Historically Impacted Mining Region. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6164-6172.	10.0	29
45	Genetic loci regulating arsenic content in rice grains when grown flooded or under alternative wetting and drying irrigation. <i>Rice</i> , 2019, 12, 54.	4.0	28
46	Interaction between contrasting rice genotypes and soil physical conditions induced by hydraulic stresses typical of alternate wetting and drying irrigation of soil. <i>Plant and Soil</i> , 2018, 430, 233-243.	3.7	27
47	Arsenic in Bangladeshi soils related to physiographic region, paddy management, and micro- and macro-elemental status. <i>Science of the Total Environment</i> , 2017, 590-591, 406-415.	8.0	26
48	Alternate wetting and drying in Bangladesh: Water-saving farming practice and the socioeconomic barriers to its adoption. <i>Food and Energy Security</i> , 2018, 7, e00149.	4.3	25
49	Characterisation of recombinant <i>Hevea brasiliensis</i> allene oxide synthase: Effects of cyclooxygenase inhibitors, lipoxygenase inhibitors and salicylates on enzyme activity. <i>Plant Physiology and Biochemistry</i> , 2007, 45, 129-138.	5.8	23
50	Genome-Wide Association Mapping for Salt Tolerance of Rice Seedlings Grown in Hydroponic and Soil Systems Using the Bengal and Assam Aus Panel. <i>Frontiers in Plant Science</i> , 2020, 11, 576479.	3.6	21
51	Biallelic and Genome Wide Association Mapping of Germanium Tolerant Loci in Rice ( <i>Oryza sativa</i> L.). <i>PLoS ONE</i> , 2015, 10, e0137577.	2.5	19
52	Physiographical variability in arsenic dynamics in Bangladeshi soils. <i>Science of the Total Environment</i> , 2018, 612, 1365-1372.	8.0	18
53	High throughput screening of rooting depth in rice using buried herbicide. <i>Annals of Applied Biology</i> , 2014, 165, 96-107.	2.5	15
54	Arsenic in Rice Grown in Low-Arsenic Environments in Bangladesh. <i>Water Quality, Exposure, and Health</i> , 2012, 4, 197-208.	1.5	13

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55	Genotypic differences in shoot silicon concentration and the impact on grain arsenic concentration in rice. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 265-276.	1.9	13
56	Arsenic dynamics in paddy soil under traditional manuring practices in Bangladesh. <i>Environmental Pollution</i> , 2021, 268, 115821.	7.5	12
57	Superior Haplotypes for Early Root Vigor Traits in Rice Under Dry Direct Seeded Low Nitrogen Condition Through Genome Wide Association Mapping. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	10
58	Genome-wide association mapping of sodium and potassium concentration in rice grains and shoots under alternate wetting and drying and continuously flooded irrigation. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2315-2334.	3.6	8
59	Genetic loci regulating cadmium content in rice grains. <i>Euphytica</i> , 2021, 217, 35.	1.2	7
60	Traitâ€directed de novo population transcriptome dissects genetic regulation of a balanced polymorphism in phosphorus nutrition/arsenate tolerance in a wild grass, <i>Holcus lanatus</i> . <i>New Phytologist</i> , 2014, 201, 144-154.	7.3	6
61	Genomic Prediction of Arsenic Tolerance and Grain Yield in Rice: Contribution of Trait-Specific Markers and Multi-Environment Models. <i>Rice Science</i> , 2021, 28, 268-278.	3.9	6
62	Identification of genomic loci regulating grain iron content in <i>aus</i> rice under two irrigation management systems. <i>Food and Energy Security</i> , 2022, 11, e329.	4.3	6
63	Higher zero valent iron soil amendments dosages markedly inhibit accumulation of As in Faya and Kilombero cultivars compared to Cd. <i>Science of the Total Environment</i> , 2021, 794, 148735.	8.0	5
64	The Impacts of Applying Metal(loid) Enriched Wood Ash to Soils on the Growth and Elemental Accumulation of Rice. <i>Exposure and Health</i> , 2019, 11, 311-324.	4.9	4
65	A balanced polymorphism in biomass resource allocation controlled by phosphate in grasses screened through arsenate tolerance. <i>Environmental and Experimental Botany</i> , 2013, 96, 43-51.	4.2	3
66	Genome-wide association mapping for grain manganese in rice ( <i>Oryza sativa</i> L.) using a multi-experiment approach. <i>Heredity</i> , 2021, 126, 505-520.	2.6	3
67	Geochemical variability in the soils of Bangladesh as affected by sources of irrigation water and inundation land types. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	3
68	Rice minerals and heavy metal(oid)s. , 2019, , 169-194.		1
69	Editorial: Natural Variations and Genetic Constraints on Plant Nutrition. <i>Frontiers in Genetics</i> , 0, 13, .	2.3	0