

Kabwe Nkongolo

List of Publications by Year in descending order

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57
papers

1,152
citations

331670

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h-index

434195

31
g-index

57
all docs

57
docs citations

57
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in monitoring soil microbial community dynamic and function. Journal of Applied Genetics, 2020, 61, 249-263.	1.9	67
2	Production of Doubled Haploids by Anther Culture and Wheat X Maize Method in a Wheat Breeding Programme. Plant Breeding, 1993, 110, 96-102.	1.9	59
3	Long-Term Effects of Liming on Soil Chemistry in Stable and Eroded Upland Areas in a Mining Region. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	59
4	Russian Wheat Aphid Reaction and Agronomic and Quality Traits of a Resistant Wheat. Crop Science, 1991, 31, 50-53.	1.8	53
5	Heavy Metal Accumulation in Soil and Jack Pine (Pinus banksiana) Needles in Sudbury, Ontario, Canada. Bulletin of Environmental Contamination and Toxicology, 2000, 64, 550-557.	2.7	52
6	Comparative Soil Metal Analyses in Sudbury (Ontario, Canada) and Lubumbashi (Katanga, DR-Congo). Bulletin of Environmental Contamination and Toxicology, 2012, 88, 187-192.	2.7	50
7	Identification and characterization of RAPD markers inferring genetic relationships among Pine species. Genome, 2002, 45, 51-58.	2.0	44
8	Genetic analysis of Pinus strobus and Pinus monticola populations from Canada using ISSR and RAPD markers: development of genome-specific SCAR markers. Plant Systematics and Evolution, 2007, 267, 47-63.	0.9	44
9	Cytological and molecular relationships between Larix decidua, L. leptolepis and Larix x eurolepis: identification of species-specific Chromosomes and synchronization of mitotic cells. Theoretical and Applied Genetics, 1995, 90, 827-834.	3.6	41
10	Application of ISSR, RAPD, and cytological markers to the certification of Picea mariana, P. glauca, and P. engelmannii trees, and their putative hybrids. Genome, 2005, 48, 302-311.	2.0	40
11	Coping Mechanisms of Plants to Metal Contaminated Soil. , 0, , .		36
12	Identification, characterisation, and chromosome locations of rye and wheat specific ISSR and SCAR markers useful for breeding purposes. Euphytica, 2008, 159, 297-306.	1.2	32
13	Metal Content in Soil and Black Spruce (Picea mariana) Trees in the Sudbury Region (Ontario, Canada): Low Concentration of Arsenic, Cadmium, and Nickel Detected near Smelter Sources. Bulletin of Environmental Contamination and Toxicology, 2008, 80, 107-111.	2.7	32
14	Assessing genetic diversity and structure of fragmented populations of eastern white pine (Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Ecology, 2009, 2, 143-151.	2.3	31
15	An optimized fluorescence in situ hybridization procedure for detecting rye chromosomes in wheat. Genome, 1993, 36, 701-705.	2.0	30
16	RAPD and Cytological Analyses of Picea Spp. from Different Provenances: Genomic Relationships among Taxa. Hereditas, 2004, 130, 137-144.	1.4	29
17	Molecular and ecological characterisation of plant populations from limed and metal-contaminated sites in Northern Ontario (Canada): ISSR analysis of white birch (<i>Betula papyrifera</i>) populations. Chemistry and Ecology, 2013, 29, 573-585.	1.6	29
18	Nickel and Copper Toxicity and Plant Response Mechanisms in White Birch (Betula papyrifera). Bulletin of Environmental Contamination and Toxicology, 2016, 97, 171-176.	2.7	28

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19	Comprehensive Transcriptome Analysis of Response to Nickel Stress in White Birch (<i>Betula papyrifera</i>). PLoS ONE, 2016, 11, e0153762.	2.5	28
20	Total and bioavailable metals in two contrasting mining regions (Sudbury in Canada and Lubumbashi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 111-127.	1.6	24
21	Genetic validation and characterization of RAPD markers differentiating black and red spruces: molecular certification of spruce trees and hybrids. Plant Systematics and Evolution, 2003, 236, 151-163.	0.9	23
22	Genetic analysis of <i>Pinus banksiana</i> and <i>Pinus resinosa</i> populations from stressed sites contaminated with metals in Northern Ontario (Canada). Chemistry and Ecology, 2011, 27, 369-380.	1.6	23
23	Karyotype analysis and optimization of mitotic index in <i>Picea mariana</i> (black spruce) preparations from seedling root tips and embryogenic cultures. Heredity, 1994, 73, 11-17.	2.6	22
24	Chromosome analysis and DNA homology in three <i>Picea</i> species, <i>P. mariana</i> , <i>P. rubens</i> , and <i>P. glauca</i> (Pinaceae). Plant Systematics and Evolution, 1996, 203, 27-40.	0.9	19
25	RAPD variations among pure and hybrid populations of <i>Picea mariana</i> , <i>P. rubens</i> , and <i>P. glauca</i> (Pinaceae), and cytogenetic stability of <i>Picea</i> hybrids: Identification of species-specific RAPD markers. Plant Systematics and Evolution, 1999, 215, 229-239.	0.9	19
26	Karyotype evolution in the Pinaceae: implication with molecular phylogeny. Genome, 2012, 55, 735-753.	2.0	19
27	Assessing Biological Impacts of Land Reclamation in a Mining Region in Canada: Effects of Dolomitic Lime Applications on Forest Ecosystems and Microbial Phospholipid Fatty Acid Signatures. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	17
28	High genetic variation among closely related red oak (<i>Quercus rubra</i>) populations in an ecosystem under metal stress: analysis of gene regulation. Genes and Genomics, 2016, 38, 967-976.	1.4	14
29	Molecular cytogenetic and agronomic characterization of advanced generations of wheat—triticale hybrids resistant to <i>Diuraphis noxia</i> (Mordvilko): application of GISH and microsatellite markers. Genome, 2009, 52, 353-360.	2.0	13
30	Decrypting the regulation and mechanism of nickel resistance in white birch (<i>Betula papyrifera</i>) using cross-species metal-resistance genes. Genes and Genomics, 2016, 38, 341-350.	1.4	13
31	Metal Toxicity and Resistance in Plants and Microorganisms in Terrestrial Ecosystems. Reviews of Environmental Contamination and Toxicology, 2019, 249, 1-27.	1.3	13
32	A comparative cytogenetic analysis of five pine species from North America, <i>Pinus banksiana</i> , <i>P. contorta</i> , <i>P. monticola</i> , <i>P. resinosa</i> , and <i>P. strobus</i> . Plant Systematics and Evolution, 2011, 292, 153-164.	0.9	11
33	Determination of <i>DNA</i> methylation associated with <i>Acer rubrum</i> (red maple) adaptation to metals: analysis of global <i>DNA</i> modifications and methylation-sensitive amplified polymorphism. Ecology and Evolution, 2016, 6, 5749-5760.	1.9	11
34	High level of nickel tolerance and metal exclusion identified in silver maple (<i>Acer</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (sacch 1.6 11	1.6	11
35	Differential effects of nickel dosages on in vitro and in vivo seed germination and expression of a high affinity nickel-transport family protein (AT2G16800) in trembling aspen (<i>Populus tremuloides</i>). Ecotoxicology, 2019, 28, 92-102.	2.4	11
36	DNA methylation and histone modifications induced by abiotic stressors in plants. Genes and Genomics, 2022, 44, 279-297.	1.4	10

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37	Identification of Rye Chromosomes Involved in Tolerance to Barley Yellow Dwarf Virus Disease in Wheat x Triticale Hybrids. <i>Plant Breeding</i> , 1992, 109, 123-129.	1.9	8
38	Nickel-induced global gene expressions in red maple (<i>Acer rubrum</i>): Effect of nickel concentrations. <i>Plant Gene</i> , 2018, 14, 29-36.	2.3	8
39	Differential levels of gene expression and molecular mechanisms between red maple (<i>Acer</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Ecology and Evolution, 2018, 8, 4876-4890.	1.9	8
40	Evidence of prokaryote like protein associated with nickel resistance in higher plants: horizontal transfer of TonB-dependent receptor/protein in <i>Betula</i> genus or de novo mechanisms?. <i>Heredity</i> , 2017, 118, 358-365.	2.6	7
41	Detection and physical mapping of the 18S-5.8S-26S rDNA and the pKFJ660 probe with microsatellite sequences derived from the rice blast fungus (<i>Magnaporthe grisea</i>) in conifer species. <i>Hereditas</i> , 2004, 140, 70-78.	1.4	6
42	Expression of Genes Associated with Nickel Resistance in Red Oak (<i>Quercus rubra</i>) Populations from a Metal Contaminated Region. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 100, 792-797.	2.7	6
43	Effects of Rhizobioaugmentation with N-Fixing Actinobacteria <i>Frankia</i> on Metal Mobility in <i>Casuarina glauca</i> -Soil System Irrigated with Industrial Wastewater: High Level of Metal Exclusion of <i>C. glauca</i> . <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	6
44	Genetic Differentiation of Jack Pine (<i>Pinus banksiana</i>) and Red Pine (<i>P. resinosa</i>) Populations From Metal Contaminated Areas in Northern Ontario (Canada) Using ISSR Markers. <i>Silvae Genetica</i> , 2008, 57, 333-340.	0.8	5
45	Contrasting Effects of Metal Contaminations and Soil Liming on Cations Exchange Capacity and Global DNA Methylation in <i>Betula papyrifera</i> Populations from a Mining Region. <i>American Journal of Environmental Sciences</i> , 2016, 12, 55-62.	0.5	5
46	Rhizobioaugmentation of <i>Casuarina glauca</i> with N-fixing actinobacteria <i>Frankia</i> decreases enzymatic activities in wastewater irrigated soil: effects of <i>Frankia</i> on <i>C. glauca</i> growth. <i>Ecotoxicology</i> , 2020, 29, 417-428.	2.4	5
47	Effects of organic and inorganic fertilisation on soil nutrient dynamics in a Savannah region (DR) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	4
48	Differential Gene Transcription in Red Oak (<i>Quercus rubra</i>) Genotypes Resistant to Copper Toxicity. <i>American Journal of Biochemistry and Biotechnology</i> , 2017, 13, 215-225.	0.4	4
49	Characterization of chloroplast genomes of <i>Alnus rubra</i> and <i>Betula cordifolia</i> , and their use in phylogenetic analyses in <i>Betulaceae</i> . <i>Genes and Genomics</i> , 2019, 41, 305-316.	1.4	4
50	Identification and Characterization of Microsatellite Markers Useful for Genetic Analysis of Black		

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55	Microbial biomass and activity dynamics in restored lands in a metal contaminated region. <i>Ecotoxicology</i> , 2021, 30, 1957-1968.	2.4	3
56	Reassessment of Molecular Variation in Isolated Populations of <i>Deschampsia cespitosa</i> from Metal Contaminated Regions in Northern Ontario (Canada) after 17 Years of Potential Genetic Recombination. <i>American Journal of Environmental Sciences</i> , 2017, 13, 289-296.	0.5	0
57	Molecular characterization of soybean (<i>glycine max</i>) accessions from the international collection of the plant gene resources of Canada: germplasm identification. <i>Journal of Crop Improvement</i> , 2021, 35, 722-744.	1.7	0