Victor B Busov

List of Publications by Year in descending order

43 papers	2,608 citations	218677 26 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	2973 citing authors

#	Article	IF	Citations
1	Poplar genome sequence: functional genomics in an ecologically dominant plant species. Trends in Plant Science, 2004, 9, 49-56.	8.8	281
2	Activation Tagging of a Dominant Gibberellin Catabolism Gene (GA 2-oxidase) from Poplar That Regulates Tree Stature. Plant Physiology, 2003, 132, 1283-1291.	4.8	244
3	Gibberellins Regulate Lateral Root Formation inPopulusthrough Interactions with Auxin and Other Hormones Â. Plant Cell, 2010, 22, 623-639.	6.6	221
4	A genetic network mediating the control of bud break in hybrid aspen. Nature Communications, 2018, 9, 4173.	12.8	163
5	Genes for control of plant stature and form. New Phytologist, 2008, 177, 589-607.	7.3	140
6	Transgenic modification of gai or rgl1 causes dwarfing and alters gibberellins, root growth, and metabolite profiles in Populus. Planta, 2006, 224, 288-299.	3.2	130
7	EARLY BUD-BREAK 1 (EBB1) is a regulator of release from seasonal dormancy in poplar trees. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10001-10006.	7.1	127
8	The AINTEGUMENTA LIKE1 Homeotic Transcription Factor PtAIL1 Controls the Formation of Adventitious Root Primordia in Poplar Â Â. Plant Physiology, 2012, 160, 1996-2006.	4.8	118
9	Members of the LATERAL ORGAN BOUNDARIES DOMAIN Transcription Factor Family Are Involved in the Regulation of Secondary Growth inPopulusÂ. Plant Cell, 2010, 22, 3662-3677.	6.6	114
10	Roles of Gibberellin Catabolism and Signaling in Growth and Physiological Response to Drought and Short-Day Photoperiods in Populus Trees. PLoS ONE, 2014, 9, e86217.	2.5	96
11	Identification, characterization of an AP2/ERF transcription factor that promotes adventitious, lateral root formation in Populus. Planta, 2013, 238, 271-282.	3.2	92
12	Nitrogen deprivation promotes <scp>P</scp>opulus root growth through global transcriptome reprogramming and activation of hierarchical genetic networks. New Phytologist, 2013, 200, 483-497.	7.3	69
13	Genetic transformation: a powerful tool for dissection of adaptive traits in trees. New Phytologist, 2005, 167, 9-18.	7.3	65
14	Poplar Ptab<scp>ZIP</scp>1â€like enhances lateral root formation and biomass growth under drought stress. Plant Journal, 2017, 89, 692-705.	5.7	64
15	TransgenicPopulusTrees for Forest Products, Bioenergy, and Functional Genomics. Critical Reviews in Plant Sciences, 2011, 30, 415-434.	5.7	52
16	EARLY BUD-BREAK 1 and EARLY BUD-BREAK 3 control resumption of poplar growth after winter dormancy. Nature Communications, 2021, 12, 1123.	12.8	50
17	DR5 as a reporter system to study auxin response in Populus. Plant Cell Reports, 2013, 32, 453-463.	5.6	48
18	Gibberellinâ€associated cisgenes modify growth, stature and wood properties in Populus. Plant Biotechnology Journal, 2011, 9, 162-178.	8.3	45

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19	Green Revolution Trees: Semidwarfism Transgenes Modify Gibberellins, Promote Root Growth, Enhance Morphological Diversity, and Reduce Competitiveness in Hybrid Poplar Â Â Â. Plant Physiology, 2012, 160, 1130-1144.	4.8	44
20	Repression of gibberellin biosynthesis or signaling produces striking alterations in poplar growth, morphology, and flowering. Planta, 2011, 234, 1285-1298.	3.2	41
21	Activation tagging is an effective gene tagging system in Populus. Tree Genetics and Genomes, 2011, 7, 91-101.	1.6	38
22	Recursive random forest algorithm for constructing multilayered hierarchical gene regulatory networks that govern biological pathways. PLoS ONE, 2017, 12, e0171532.	2.5	38
23	A systems biology approach identifies new regulators of poplar root development under low nitrogen. Plant Journal, 2015, 84, 335-346.	5.7	36
24	EARLY BUD-BREAK1 (EBB1) defines a conserved mechanism for control of bud-break in woody perennials. Plant Signaling and Behavior, 2016, 11, e1073873.	2.4	35
25	ptr-MIR169 is a posttranscriptional repressor of PtrHAP2 during vegetative bud dormancy period of aspen (Populus tremuloides) trees. Biochemical and Biophysical Research Communications, 2013, 431, 512-518.	2.1	30
26	SHORT INTERNODESâ€like genes regulate shoot growth and xylem proliferation in Populus. New Phytologist, 2011, 191, 678-691.	7.3	29
27	Plant Development: Dual Roles of Poplar SVL inÂVegetative Bud Dormancy. Current Biology, 2019, 29, R68-R70.	3.9	26
28	Insertional mutagenesis in Populus: relevance and feasibility. Tree Genetics and Genomes, 2005, 1, 135-142.	1.6	20
29	Genetic networks involved in poplar root response to low nitrogen. Plant Signaling and Behavior, 2013, 8, e27211.	2.4	17
30	BIG LEAF is a regulator of organ size and adventitious root formation in poplar. PLoS ONE, 2017, 12, e0180527.	2.5	17
31	CRISPR/Cas9â€mediated single and biallelic knockout of poplar STERILE APETALA (PopSAP) leads to complete reproductive sterility. Plant Biotechnology Journal, 2021, 19, 23-25.	8.3	16
32	Enhancer trapping in woody plants: Isolation of the ET304 gene encoding a putative AT-hook motif transcription factor and characterization of the expression patterns conferred by its promoter in transgenic Populus and Arabidopsis. Plant Science, 2006, 171, 206-216.	3.6	15
33	Popâ€™s Pipes: poplar gene expression data analysis pipelines. Tree Genetics and Genomes, 2014, 10, 1093-1101.	1.6	15
34	Gene network analysis of poplar root transcriptome in response to drought stress identifies a PtaJAZ3PtaRAP2.6-centered hierarchical network. PLoS ONE, 2018, 13, e0208560.	2.5	13
35	PHOTOPERIOD RESPONSE 1 (PHOR1)-like Genes Regulate Shoot/root Growth, Starch Accumulation, and Wood Formation in Populus. Journal of Experimental Botany, 2012, 63, 5623-5634.	4.8	11
36	Boundary genes in regulation and evolution of secondary growth. Plant Signaling and Behavior, 2011, 6, 688-690.	2.4	10

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37	Recombinant DNA modification of gibberellin metabolism alters growth rate and biomass allocation in Populus. Tree Genetics and Genomes, 2015, 11, 1.	1.6	10
38	Manipulation of Growth and Architectural Characteristics in Trees for Increased Woody Biomass Production. Frontiers in Plant Science, 2018, 9, 1505.	3.6	8
39	Transformation as a Tool for Genetic Analysis in Populus. , 2010, , 113-133.		7
40	A network of genes associated with poplar root development in response to low nitrogen. Plant Signaling and Behavior, 2016, 11, e1214792.	2.4	5
41	Gene dosage effects and signatures of purifying selection in lateral organ boundaries domain (LBD) genes LBD1 and LBD18. Plant Systematics and Evolution, 2016, 302, 433-445.	0.9	3
42	Overexpression of a developing xylem cDNA library in transgenic poplar generates high mutation rate specific to wood formation. Plant Biotechnology Journal, 2020, 18, 1434-1443.	8.3	3
43	Improved Heat FT Induction Leads to Earlier and More Prolific Flowering in Poplar. Journal of Botanical Research, 2019, 1, .	0.2	2