

Ta Gorshkova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

2,017
citations

25
h-index

41
g-index

90
ext. papers

2,550
ext. citations

4.5
avg, IF

5.01
L-index

#	Paper	IF	Citations
85	On the origin of bast fiber dislocations in flax. <i>Industrial Crops and Products</i> , 2022 , 176, 114382	5.9	1
84	Dynamics of cell wall polysaccharides during the elongation growth of rye primary roots.. <i>Planta</i> , 2022 , 255, 108	4.7	1
83	Forgotten Actors: Glycoside Hydrolases During Elongation Growth of Maize Primary Root.. <i>Frontiers in Plant Science</i> , 2021 , 12, 802424	6.2	2
82	Gradients of cell wall nano-mechanical properties along and across elongating primary roots of maize. <i>Journal of Experimental Botany</i> , 2021 , 72, 1764-1781	7	2
81	Gene Expression Patterns for Proteins With Lectin Domains in Flax Stem Tissues Are Related to Deposition of Distinct Cell Wall Types. <i>Frontiers in Plant Science</i> , 2021 , 12, 634594	6.2	3
80	Novel Insight into the Intricate Shape of Flax Fibre Lumen. <i>Fibers</i> , 2021 , 9, 24	3.7	7
79	Cell Wall Layer Induced in Xylem Fibers of Flax Upon Gravistimulation Is Similar to Constitutively Formed Cell Walls of Bast Fibers. <i>Frontiers in Plant Science</i> , 2021 , 12, 660375	6.2	5
78	FIBexDB: a new online transcriptome platform to analyze development of plant cellulosic fibers. <i>New Phytologist</i> , 2021 , 231, 512-515	9.8	1
77	Elongation of wood fibers combines features of diffuse and tip growth. <i>New Phytologist</i> , 2021 , 232, 673-681	9.8	2
76	Expression of cellulose synthase-like genes in two phenotypically distinct flax (<i>Linum usitatissimum</i> L.) subspecies. <i>Genetic Resources and Crop Evolution</i> , 2020 , 67, 1821-1837	2	3
75	The Living Fossil Has Cortical Fibers With Mannan-Based Cell Wall Matrix. <i>Frontiers in Plant Science</i> , 2020 , 11, 488	6.2	1
74	Elongating maize root: zone-specific combinations of polysaccharides from type I and type II primary cell walls. <i>Scientific Reports</i> , 2020 , 10, 10956	4.9	15
73	Genes with bast fiber-specific expression in flax plants - Molecular keys for targeted fiber crop improvement. <i>Industrial Crops and Products</i> , 2020 , 152, 112549	5.9	11
72	Stimulation of adventitious root formation by the oligosaccharin OSRG at the transcriptome level. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1703503	2.5	3
71	Evidence and quantitative evaluation of tensile maturation strain in flax phloem through longitudinal splitting. <i>Botany</i> , 2020 , 98, 9-19	1.3	4
70	The Toolbox for Fiber Flax Breeding: A Pipeline From Gene Expression to Fiber Quality. <i>Frontiers in Genetics</i> , 2020 , 11, 589881	4.5	5
69	The Influence of Effectors of the Ca ²⁺ Signaling System and Oligosaccharin OSRG on IAA-Induced Formation of Adventitious Roots on Explants of Buckwheat Hypocotyls. <i>Russian Journal of Plant Physiology</i> , 2020 , 67, 626-635	1.6	

68	Assessment of Primary Cell Wall Nanomechanical Properties in Internal Cells of Non-Fixed Maize Roots. <i>Plants</i> , 2019 , 8,	4.5	4
67	AFM analysis reveals polymorphism of purified flax rhamnogalacturonans I of distinct functional types. <i>Carbohydrate Polymers</i> , 2019 , 216, 238-246	10.3	10
66	Intrusive Growth of Phloem Fibers in Flax Stem: Integrated Analysis of miRNA and mRNA Expression Profiles. <i>Plants</i> , 2019 , 8,	4.5	12
65	Flax rhamnogalacturonan lyases: phylogeny, differential expression and modeling of protein structure. <i>Physiologia Plantarum</i> , 2019 , 167, 173-187	4.6	6
64	Plant 'muscles': fibers with a tertiary cell wall. <i>New Phytologist</i> , 2018 , 218, 66-72	9.8	40
63	Spatial structures of rhamnogalacturonan I in gel and colloidal solution identified by 1D and 2D-FTIR spectroscopy. <i>Carbohydrate Polymers</i> , 2018 , 192, 231-239	10.3	15
62	Development of distinct cell wall layers both in primary and secondary phloem fibers of hemp (<i>Cannabis sativa</i> L.). <i>Industrial Crops and Products</i> , 2018 , 117, 97-109	5.9	23
61	Phloem fibres as motors of gravitropic behaviour of flax plants: level of transcriptome. <i>Functional Plant Biology</i> , 2018 , 45, 203-214	2.7	12
60	Investigation of the Mechanical Properties of Flax Cell Walls during Plant Development: The Relation between Performance and Cell Wall Structure. <i>Fibers</i> , 2018 , 6, 6	3.7	32
59	Key Stages of Fiber Development as Determinants of Bast Fiber Yield and Quality. <i>Fibers</i> , 2018 , 6, 20	3.7	17
58	Plants at Bodybuilding: Development of Plant Muscles 2018 , 141-163		4
57	Transcriptome Analysis of Intrusively Growing Flax Fibers Isolated by Laser Microdissection. <i>Scientific Reports</i> , 2018 , 8, 14570	4.9	24
56	Screenplay of flax phloem fiber behavior during gravitropic reaction. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1486144	2.5	1
55	Development of gravitropic response: unusual behavior of flax phloem G-fibers. <i>Protoplasma</i> , 2017 , 254, 749-762	3.4	16
54	Gelation of rhamnogalacturonan I is based on galactan side chain interaction and does not involve chemical modifications. <i>Carbohydrate Polymers</i> , 2017 , 171, 143-151	10.3	28
53	Flax fibers: assessing the non-cellulosic polysaccharides and an approach to supramolecular design of the cell wall. <i>Cellulose</i> , 2017 , 24, 1985-2001	5.5	30
52	Metrics of rhamnogalacturonan I with $\beta(1\rightarrow4)$ -linked galactan side chains and structural basis for its self-aggregation. <i>Carbohydrate Polymers</i> , 2017 , 158, 93-101	10.3	29
51	Transcriptome portrait of cellulose-enriched flax fibres at advanced stage of specialization. <i>Plant Molecular Biology</i> , 2017 , 93, 431-449	4.6	32

50	Cellulosic fibres of flax recruit both primary and secondary cell wall cellulose synthases during deposition of thick tertiary cell walls and in the course of graviresponse. <i>Functional Plant Biology</i> , 2017 , 44, 820-831	2.7	23
49	Systemic use of β -glucanase enzymes in plant cell walls. <i>Russian Journal of Plant Physiology</i> , 2017 , 64, 808-821.6		4
48	Pectobacterium atrosepticum exopolysaccharides: identification, molecular structure, formation under stress and in planta conditions. <i>Glycobiology</i> , 2017 , 27, 1016-1026	5.8	7
47	Pretreatment of Sugar Beet Pulp with Dilute Sulfurous Acid is Effective for Multipurpose Usage of Carbohydrates. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 179, 307-20	3.2	6
46	Pathogen-induced conditioning of the primary xylem vessels - a prerequisite for the formation of bacterial emboli by Pectobacterium atrosepticum. <i>Plant Biology</i> , 2016 , 18, 609-17	3.7	10
45	Character of oligosaccharin OS-RG participation in the IAA-induced formation of adventitious roots. <i>Russian Journal of Plant Physiology</i> , 2015 , 62, 171-178	1.6	3
44	Differential expression of β -L-arabinofuranosidases during maize (<i>Zea mays</i> L.) root elongation. <i>Planta</i> , 2015 , 241, 1159-72	4.7	8
43	Tissue-specific rhamnogalacturonan I forms the gel with hyperelastic properties. <i>Biochemistry (Moscow)</i> , 2015 , 80, 915-24	2.9	13
42	Plant oligosaccharides - outsiders among elicitors?. <i>Biochemistry (Moscow)</i> , 2015 , 80, 881-900	2.9	9
41	Cell wall components in torrefied softwood and hardwood samples. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 116, 102-113	6	11
40	Aspen Tension Wood Fibers Contain β (1 \rightarrow 4)-Galactans and Acidic Arabinogalactans Retained by Cellulose Microfibrils in Gelatinous Walls. <i>Plant Physiology</i> , 2015 , 169, 2048-63	6.6	54
39	Physicochemical properties of complex rhamnogalacturonan I from gelatinous cell walls of flax fibers. <i>Carbohydrate Polymers</i> , 2015 , 117, 853-861	10.3	22
38	Intrusive growth of primary and secondary phloem fibres in hemp stem determines fibre-bundle formation and structure. <i>AoB PLANTS</i> , 2015 , 7,	2.9	39
37	Functional diversity of rhamnogalacturonans I. <i>Russian Chemical Bulletin</i> , 2015 , 64, 1014-1023	1.7	13
36	Arrangement of mixed-linkage glucan and glucuronoarabinoxylan in the cell walls of growing maize roots. <i>Annals of Botany</i> , 2014 , 114, 1135-45	4.1	29
35	Chitinase-like (CTL) and cellulose synthase (CESA) gene expression in gelatinous-type cellulosic walls of flax (<i>Linum usitatissimum</i> L.) bast fibers. <i>PLoS ONE</i> , 2014 , 9, e97949	3.7	41
34	Cell Wall Polymers in Reaction Wood. <i>Springer Series in Wood Science</i> , 2014 , 37-106		18
33	Spatial structure of plant cell wall polysaccharides and its functional significance. <i>Biochemistry (Moscow)</i> , 2013 , 78, 836-53	2.9	25

32	Glucuronoarabinoxylan extracted by treatment with endoxylanase from different zones of growing maize root. <i>Biochemistry (Moscow)</i> , 2012 , 77, 395-403	2.9	10
31	Galactosidase of plant fibers with gelatinous cell wall: Identification and localization. <i>Russian Journal of Plant Physiology</i> , 2012 , 59, 246-254	1.6	13
30	Distribution and structure of mixed linkage glucan at different stages of elongation of maize root cells. <i>Russian Journal of Plant Physiology</i> , 2012 , 59, 339-347	1.6	12
29	Processes of protoplast senescence and death in flax fibers: An ultrastructural analysis. <i>Russian Journal of Developmental Biology</i> , 2012 , 43, 94-100	0.8	4
28	Tensional stress generation in gelatinous fibres: a review and possible mechanism based on cell-wall structure and composition. <i>Journal of Experimental Botany</i> , 2012 , 63, 551-65	7	15 ¹
27	Plant Fiber Formation: State of the Art, Recent and Expected Progress, and Open Questions. <i>Critical Reviews in Plant Sciences</i> , 2012 , 31, 201-228	5.6	100
26	Structural details of pectic galactan from the secondary cell walls of flax (<i>Linum usitatissimum</i> L.) phloem fibres. <i>Carbohydrate Polymers</i> , 2012 , 87, 853-861	10.3	48
25	Development of cellulosic secondary walls in flax fibers requires beta-galactosidase. <i>Plant Physiology</i> , 2011 , 156, 1351-63	6.6	84
24	Formation of plant cell wall supramolecular structure. <i>Biochemistry (Moscow)</i> , 2010 , 75, 159-72	2.9	24
23	Specific type of secondary cell wall formed by plant fibers. <i>Russian Journal of Plant Physiology</i> , 2010 , 57, 328-341	1.6	71
22	Intrusive growth of sclerenchyma fibers. <i>Russian Journal of Plant Physiology</i> , 2010 , 57, 342-355	1.6	51
21	Free galactose and galactosidase activity in the course of flax fiber development. <i>Russian Journal of Plant Physiology</i> , 2009 , 56, 58-67	1.6	10
20	Homofusion of Golgi secretory vesicles in flax phloem fibers during formation of the gelatinous secondary cell wall. <i>Protoplasma</i> , 2008 , 233, 269-73	3.4	22
19	Polysaccharides, tightly bound to cellulose in cell wall of flax bast fibre: Isolation and identification. <i>Carbohydrate Polymers</i> , 2008 , 72, 719-729	10.3	42
18	MALDI-TOF MS evidence for the linking of flax bast fibre galactan to rhamnogalacturonan backbone. <i>Carbohydrate Polymers</i> , 2007 , 67, 86-96	10.3	30
17	Variability in the composition of tissue-specific galactan from flax fibers. <i>Russian Journal of Plant Physiology</i> , 2007 , 54, 782-789	1.6	6
16	Biogenesis of plant fibers. <i>Russian Journal of Developmental Biology</i> , 2007 , 38, 221-232	0.8	20
15	Structural characterization of tissue-specific galactan from flax fibers by 1H NMR and MALDI TOF mass spectrometry. <i>Russian Journal of Bioorganic Chemistry</i> , 2006 , 32, 558-567	1	4

14	Plant fiber intrusive growth characterized by NMR method. <i>Russian Journal of Plant Physiology</i> , 2006 , 53, 163-168	1.6	15
13	The effect of soil drought on the phloem fiber development in long-fiber flax. <i>Russian Journal of Plant Physiology</i> , 2006 , 53, 656-662	1.6	41
12	Secondary cell-wall assembly in flax phloem fibres: role of galactans. <i>Planta</i> , 2006 , 223, 149-58	4.7	108
11	Tissue-specific processes during cell wall formation in flax fiber. <i>Plant Biosystems</i> , 2005 , 139, 88-92	1.6	15
10	Intrusive growth of flax phloem fibers is of intercalary type. <i>Planta</i> , 2005 , 222, 565-74	4.7	69
9	Plant Cell Wall Is a Stumbling Stone for Molecular Biologists. <i>Russian Journal of Plant Physiology</i> , 2005 , 52, 392-409	1.6	4
8	Occurrence of cell-specific galactan is coinciding with bast fiber developmental transition in flax. <i>Industrial Crops and Products</i> , 2004 , 19, 217-224	5.9	42
7	The snap point: a transition point in <i>Linum usitatissimum</i> bast fiber development. <i>Industrial Crops and Products</i> , 2003 , 18, 213-221	5.9	121
6	Configuration of the microtubule cytoskeleton in elongating fibers of flax (<i>Linum usitatissimum</i> L.). <i>Cell Biology International</i> , 2003 , 27, 225	4.5	
5	CELL WALLS AND FIBERS Fiber Formation 2003 , 87-96		20
4	Composition and Distribution of Cell Wall Phenolic Compounds in Flax (<i>Linum usitatissimum</i> L.) Stem Tissues. <i>Annals of Botany</i> , 2000 , 85, 477-486	4.1	64
3	Cell wall-bound phenolics in cells of maize (<i>Zea mays</i> , Gramineae) and buckwheat (<i>Fagopyrum tataricum</i> , Polygonaceae) with different plant regeneration abilities. <i>Plant Science</i> , 2000 , 152, 79-85	5.3	18
2	Cold alkali can extract phenolic acids that are ether linked to cell wall components in dicotyledonous plants (buckwheat, soybean and flax). <i>Phytochemistry</i> , 1999 , 50, 395-400	4	51
1	Composition of cellular walls in callus cultures of strawberries with different capacity to morphogenesis. <i>Biopolymers and Cell</i> , 1996 , 12, 56-61	0.3	1