

Olga Valentova

List of Publications by Year in descending order

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70
papers

2,178
citations

236925

25
h-index

243625

44
g-index

72
all docs

72
docs citations

72
times ranked

2321
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-based resistance inducers for sustainable plant protection against pathogens. <i>Biotechnology Advances</i> , 2015, 33, 994-1004.	11.7	196
2	Phosphatidic acid produced by phospholipase Δ D is required for tobacco pollen tube growth. <i>Planta</i> , 2003, 217, 122-130.	3.2	168
3	Phosphatidylinositol 4-Kinase Activation Is an Early Response to Salicylic Acid in Arabidopsis Suspension Cells. <i>Plant Physiology</i> , 2007, 144, 1347-1359.	4.8	110
4	Plant hormones in defense response of <i>Brassica napus</i> to <i>Sclerotinia sclerotiorum</i> – Reassessing the role of salicylic acid in the interaction with a necrotroph. <i>Plant Physiology and Biochemistry</i> , 2014, 80, 308-317.	5.8	106
5	Inositol trisphosphate receptor in higher plants: is it real?. <i>Journal of Experimental Botany</i> , 2006, 58, 361-376.	4.8	102
6	Mutual regulation of plant phospholipase ϵ D and the actin cytoskeleton. <i>Plant Journal</i> , 2010, 62, 494-507.	5.7	92
7	Phosphoglycerolipids are master players in plant hormone signal transduction. <i>Plant Cell Reports</i> , 2013, 32, 839-851.	5.6	74
8	Phospholipase D Activation Is an Early Component of the Salicylic Acid Signaling Pathway in Arabidopsis Cell Suspensions –. <i>Plant Physiology</i> , 2009, 150, 424-436.	4.8	67
9	The phosphatidylcholine-hydrolysing phospholipase C NPC4 plays a role in response of Arabidopsis roots to salt stress. <i>Journal of Experimental Botany</i> , 2011, 62, 3753-3763.	4.8	67
10	Affinity chromatography on hydroxyalkyl methacrylate gels. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1973, 322, 1-9.	1.7	62
11	Recognition of Avirulence Gene <i>AvrLm1</i> from Hemibiotrophic Ascomycete <i>Leptosphaeria maculans</i> Triggers Salicylic Acid and Ethylene Signaling in <i>Brassica napus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 1238-1250.	2.6	62
12	Invertase immobilization via its carbohydrate moiety. <i>Biotechnology and Bioengineering</i> , 1984, 26, 1223-1226.	3.3	59
13	Particles with similar LET values generate DNA breaks of different complexity and reparability: a high-resolution microscopy analysis of $\text{H}^2\text{AX}/53\text{BP1}$ foci. <i>Nanoscale</i> , 2018, 10, 1162-1179.	5.6	56
14	Constitutive salicylic acid accumulation in <i>pi4k<scp>III</scp>I^2I^2</i> Arabidopsis plants stunts rosette but not root growth. <i>New Phytologist</i> , 2014, 203, 805-816.	7.3	51
15	Involvement of phospholipases C and Δ in early response to SAR and ISR inducers in <i>Brassica napus</i> plants. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 143-151.	5.8	45
16	Aluminium ions inhibit the formation of diacylglycerol generated by phosphatidylcholine ϵ h hydrolysing phospholipase C in tobacco cells. <i>New Phytologist</i> , 2010, 188, 150-160.	7.3	44
17	Comparison of different methods of glucose oxidase immobilization. <i>Biotechnology and Bioengineering</i> , 1981, 23, 2093-2104.	3.3	43
18	I^2 -aminobutyric acid protects <i>Brassica napus</i> plants from infection by <i>Leptosphaeria maculans</i> . Resistance induction or a direct antifungal effect?. <i>European Journal of Plant Pathology</i> , 2012, 133, 279-289.	1.7	43

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19	Arabidopsis non-specific phospholipase C1: characterization and its involvement in response to heat stress. <i>Frontiers in Plant Science</i> , 2015, 6, 928.	3.6	33
20	Cell wall contributes to the stability of plasma membrane nanodomain organization of <i>Arabidopsis thaliana</i> FLOTILLIN2 and HYPERSENSITIVE INDUCED REACTION1 proteins. <i>Plant Journal</i> , 2020, 101, 619-636.	5.7	30
21	<i>Leptosphaeria maculans</i> effector AvrLm4-7 affects salicylic acid (SA) and ethylene (ET) signalling and hydrogen peroxide (H ₂ O ₂) accumulation in <i>Brassica napus</i> . <i>Molecular Plant Pathology</i> , 2016, 17, 818-831.	4.2	29
22	Mapping of Plasma Membrane Proteins Interacting With <i>Arabidopsis thaliana</i> Flotillin 2. <i>Frontiers in Plant Science</i> , 2018, 9, 991.	3.6	29
23	Noble metal nanoparticles in agriculture: impacts on plants, associated microorganisms, and biotechnological practices. <i>Biotechnology Advances</i> , 2022, 58, 107929.	11.7	29
24	Phospholipase D affects translocation of NPR1 to the nucleus in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 59.	3.6	28
25	Actin depolymerization is able to increase plant resistance against pathogens via activation of salicylic acid signalling pathway. <i>Scientific Reports</i> , 2019, 9, 10397.	3.3	27
26	Critical analysis of phospholipid hydrolyzing activities in ripening tomato fruits. Study by spectrofluorimetry and high-performance liquid chromatography. <i>Lipids</i> , 1995, 30, 739-746.	1.7	26
27	The <i>Arabidopsis thaliana</i> non-specific phospholipase C2 is involved in the response to <i>Pseudomonas syringae</i> attack. <i>Annals of Botany</i> , 2018, 121, 297-310.	2.9	26
28	Pepsin immobilized by covalent fixation to hydroxyalkyl methacrylate gels: Preparation and characterization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975, 403, 192-196.	2.6	24
29	Plant PIP2 -dependent phospholipase D activity is regulated by phosphorylation. <i>FEBS Letters</i> , 2003, 554, 50-54.	2.8	24
30	Affinity chromatography on hydroxyalkyl methacrylate gels III. Adsorption of chymotrypsin to poly(hydroxyalkyl methacrylates) with covalently bound benzyloxycarbonyl-glycyl-d-phenylalanine and -d-leucine as function of pH and ionic strength. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1976, 427, 586-593.	1.7	23
31	Changes in actin dynamics are involved in salicylic acid signaling pathway. <i>Plant Science</i> , 2014, 223, 36-44.	3.6	22
32	Determination of phospholipase D activity with a choline biosensor. <i>Analytica Chimica Acta</i> , 1993, 280, 43-48.	5.4	20
33	Flotillins, Erlins, and HIRs: From Animal Base Camp to Plant New Horizons. <i>Critical Reviews in Plant Sciences</i> , 2016, 35, 191-214.	5.7	20
34	Purification of microbial uricase. <i>Biomedical Applications</i> , 1989, 497, 268-275.	1.7	19
35	Role of hydrogen peroxide and antioxidant enzymes in the interaction between a hemibiotrophic fungal pathogen, <i>Leptosphaeria maculans</i> , and oilseed rape. <i>Environmental and Experimental Botany</i> , 2011, 72, 149-156.	4.2	19
36	Salicylic Acid Mutant Collection as a Tool to Explore the Role of Salicylic Acid in Regulation of Plant Growth under a Changing Environment. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6365.	4.1	19

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37	Immobilization of glycoenzymes by means of their glycosidic components. <i>Biotechnology Letters</i> , 1983, 5, 653-658.	2.2	18
38	Aluminum ions inhibit phospholipase D in a microtubule-dependent manner. <i>Cell Biology International</i> , 2008, 32, 554-556.	3.0	18
39	Interconnection between actin cytoskeleton and plant defense signaling. <i>Plant Signaling and Behavior</i> , 2014, 9, e976486.	2.4	16
40	A microplate technique for phospholipase D activity determination. <i>Analytica Chimica Acta</i> , 1995, 315, 109-112.	5.4	15
41	Phospholipase D assists to cortical microtubule recovery after salt stress. <i>Protoplasma</i> , 2018, 255, 1195-1204.	2.1	15
42	Identification of salicylic acid-independent responses in an Arabidopsis phosphatidylinositol 4-kinase beta double mutant. <i>Annals of Botany</i> , 2020, 125, 775-784.	2.9	15
43	Genomic Damage Induced in <i>Nicotiana tabacum</i> L. Plants by Colloidal Solution with Silver and Gold Nanoparticles. <i>Plants</i> , 2021, 10, 1260.	3.5	15
44	In vitro distribution and characterization of membrane-associated PLD and PI-PLC in <i>Brassica napus</i> . <i>Journal of Experimental Botany</i> , 2003, 54, 691-698.	4.8	14
45	Cell Wall Components of <i>Leptosphaeria maculans</i> Enhance Resistance of <i>Brassica napus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 5207-5214.	5.2	14
46	Purification and characterisation of rape seed phospholipase D. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 531-537.	5.8	14
47	Purification and characterisation of rape seed phospholipase D. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 531-537.	5.8	13
48	Chitinase isozymes induced by TYMV and <i>Leptosphaeria maculans</i> during compatible and incompatible interaction with <i>Brassica napus</i> . <i>Biologia Plantarum</i> , 2007, 51, 507-513.	1.9	13
49	Size-related oxygen consumption and ammonia excretion of Eurasian perch (<i>Perca fluviatilis</i> L.) reared in a recirculating system. <i>Aquaculture Research</i> , 2009, 41, 135-142.	1.8	11
50	Isolation of aminopeptidase from <i>Aspergillus flavus</i> . <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1976, 420, 309-315.	1.7	9
51	Reactive carriers of immobilized compounds. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977, 481, 289-296.	2.6	8
52	Influence of microwave treatment on the quality of rapeseed oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2002, 79, 1271-1272.	1.9	8
53	Enzymic determination of glucose in foodstuffs. <i>Journal of the Science of Food and Agriculture</i> , 1983, 34, 748-754.	3.5	7
54	Editorial: Lipid Signaling in Plant Development and Responses to Environmental Stresses. <i>Frontiers in Plant Science</i> , 2016, 7, 324.	3.6	7

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55	Interplay between phosphoinositides and actin cytoskeleton in the regulation of immunity related responses in <i>Arabidopsis thaliana</i> seedlings. <i>Environmental and Experimental Botany</i> , 2019, 167, 103867.	4.2	7
56	Spectrophotometric flow-injection determination of urea in body fluids by using an immobilized urease reactor. <i>Analytica Chimica Acta</i> , 1989, 218, 151-155.	5.4	6
57	Sensitive techniques for phospholipase D determination in plants. <i>TrAC - Trends in Analytical Chemistry</i> , 1993, 12, 266-271.	11.4	6
58	Immobilized preparations for the biotransformation of daunomycinone. <i>Biotechnology Letters</i> , 1981, 3, 327-330.	2.2	5
59	Immobilization of cells via activated cell walls. <i>Biotechnology Letters</i> , 1986, 8, 721-724.	2.2	5
60	Separation and identification of candidate protein elicitors from the cultivation medium of <i>Leptosphaeria maculans</i> inducing resistance in <i>Brassica napus</i> . <i>Biotechnology Progress</i> , 2016, 32, 918-928.	2.6	5
61	Identification of phospholipase D genes in <i>Brassica napus</i> and their transcription after phytohormone treatment and pathogen infection. <i>Biologia Plantarum</i> , 2015, 59, 581-590.	1.9	4
62	Production of glucose isomerase by different strains of <i>Streptomyces</i> . <i>Biotechnology Letters</i> , 1979, 1, 293-298.	2.2	3
63	Regulation of the microsomal proteome by salicylic acid and deficiency of phosphatidylinositol 4-kinases Î²1 and Î²2 in <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , 2021, 21, 2000223.	2.2	3
64	Study of phospholipases D and C in maturing and germinating seeds of <i>Brassica napus</i> . <i>Biochemical Society Transactions</i> , 2000, 28, 817.	3.4	3
65	High-performance anion-exchange chromatography of rennet enzymes. <i>Journal of Chromatography A</i> , 1988, 438, 451-453.	3.7	2
66	Some methods for isolation and assays of enzymes occurring in cereals and legumes. <i>Food Reviews International</i> , 1992, 8, 559-572.	8.4	2
67	Purification of glycerophosphate oxidase isolated from mutant strain of <i>aerococcus viridans</i> . <i>Biotechnology Letters</i> , 1993, 7, 435-438.	0.5	1
68	An open tubular heterogeneous trypsin reactor. <i>Collection of Czechoslovak Chemical Communications</i> , 1976, 41, 164-171.	1.0	1
69	Study of cytosolic and membrane-bound phospholipase D in poppy seedlings, <i>Papaver somniferum</i> L.. <i>Chemistry and Physics of Lipids</i> , 2008, 154, S59.	3.2	0
70	Changes of Phospholipase D Activity during Rape Seed Development and Processing. , 1997, , 275-277.		0