# Olga Valentova

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 69 papers | 2,178 citations | 270111 25 h-index | 274796 44 g-index |
| 72 all docs | 72 docs citations | 72 times ranked | 2532 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bio-based resistance inducers for sustainable plant protection against pathogens. Biotechnology Advances, 2015, 33, 994-1004. | 6.0 | 196 |
| 2 | Phosphatidic acid produced by phospholipaseÂD is required for tobacco pollen tube growth. Planta, 2003, 217, 122-130. | 1.6 | 168 |
| 3 | Phosphatidylinositol 4-Kinase Activation Is an Early Response to Salicylic Acid in Arabidopsis Suspension Cells. Plant Physiology, 2007, 144, 1347-1359. | 2.3 | 110 |
| 4 | Plant hormones in defense response of Brassica napus to Sclerotinia sclerotiorum â€“ Reassessing the role of salicylic acid in the interaction with a necrotroph. Plant Physiology and Biochemistry, 2014, 80, 308-317. | 2.8 | 106 |
| 5 | Inositol trisphosphate receptor in higher plants: is it real?. Journal of Experimental Botany, 2006, 58, 361-376. | 2.4 | 102 |
| 6 | Mutual regulation of plant phospholipaseâ€ƒD and the actin cytoskeleton. Plant Journal, 2010, 62, 494-507. | 2.8 | 92 |
| 7 | Phosphoglycerolipids are master players in plant hormone signal transduction. Plant Cell Reports, 2013, 32, 839-851. | 2.8 | 74 |
| 8 | Phospholipase D Activation Is an Early Component of the Salicylic Acid Signaling Pathway in Arabidopsis Cell Suspensions Â Â. Plant Physiology, 2009, 150, 424-436. | 2.3 | 67 |
| 9 | The phosphatidylcholine-hydrolysing phospholipase C NPC4 plays a role in response of Arabidopsis roots to salt stress. Journal of Experimental Botany, 2011, 62, 3753-3763. | 2.4 | 67 |
| 10 | Affinity chromatography on hydroxyalkyl methacrylate gels. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1973, 322, 1-9. | 1.7 | 62 |
| 11 | Recognition of Avirulence Gene AvrLm1 from Hemibiotrophic Ascomycete Leptosphaeria maculans Triggers Salicylic Acid and Ethylene Signaling in Brassica napus. Molecular Plant-Microbe Interactions, 2012, 25, 1238-1250. | 1.4 | 62 |
| 12 | Invertase immobilization via its carbohydrate moiety. Biotechnology and Bioengineering, 1984, 26, 1223-1226. | 1.7 | 59 |
| 13 | Particles with similar LET values generate DNA breaks of different complexity and reparability: a high-resolution microscopy analysis of Î³H2AX/53BP1 foci. Nanoscale, 2018, 10, 1162-1179. | 2.8 | 56 |
| 14 | Constitutive salicylic acid accumulation in pi4k<scp>III</scp>Î²1Î²2 Arabidopsis plants stunts rosette but not root growth. New Phytologist, 2014, 203, 805-816. | 3.5 | 51 |
| 15 | Involvement ofÂphospholipases C andÂD inÂearly response toÂSAR andÂISR inducers inÂBrassicaÂnapus plants. Plant Physiology and Biochemistry, 2006, 44, 143-151. | 2.8 | 45 |
| 16 | Aluminium ions inhibit the formation of diacylglycerol generated by phosphatidylcholineâ€hydrolysing phospholipase C in tobacco cells. New Phytologist, 2010, 188, 150-160. | 3.5 | 44 |
| 17 | Comparison of different methods of glucose oxidase immobilization. Biotechnology and Bioengineering, 1981, 23, 2093-2104. | 1.7 | 43 |
| 18 | Î²-aminobutyric acid protects Brassica napus plants from infection by Leptosphaeria maculans. Resistance induction or a direct antifungal effect?. European Journal of Plant Pathology, 2012, 133, 279-289. | 0.8 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Arabidopsis non-specific phospholipase C1: characterization and its involvement in response to heat stress. Frontiers in Plant Science, 2015, 6, 928. | 1.7 | 33 |
| 20 | Cell wall contributes to the stability of plasma membrane nanodomain organization of Arabidopsis thaliana FLOTILLIN2 and HYPERSENSITIVE INDUCED REACTION1 proteins. Plant Journal, 2020, 101, 619-636. | 2.8 | 30 |
| 21 | <scp>L</scp>eptosphaeria maculans effector AvrLm4â€7 affects salicylic acid (SA) and ethylene (ET) signalling and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) accumulation in <scp>B</scp>rassica napus. Molecular Plant Pathology, 2016, 17, 818-831. | 2.0 | 29 |
| 22 | Mapping of Plasma Membrane Proteins Interacting With Arabidopsis thaliana Flotillin 2. Frontiers in Plant Science, 2018, 9, 991. | 1.7 | 29 |
| 23 | Noble metal nanoparticles in agriculture: impacts on plants, associated microorganisms, and biotechnological practices. Biotechnology Advances, 2022, 58, 107929. | 6.0 | 29 |
| 24 | Phospholipase D affects translocation of NPR1 to the nucleus in Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 59. | 1.7 | 28 |
| 25 | Actin depolymerization is able to increase plant resistance against pathogens via activation of salicylic acid signalling pathway. Scientific Reports, 2019, 9, 10397. | 1.6 | 27 |
| 26 | Critical analysis of phospholipid hydrolyzing activities in ripening tomato fruits. Study by spectrofluorimetry and high-performance liquid chromatography. Lipids, 1995, 30, 739-746. | 0.7 | 26 |
| 27 | The Arabidopsis thaliana non-specific phospholipase C2 is involved in the response to Pseudomonas syringae attack. Annals of Botany, 2018, 121, 297-310. | 1.4 | 26 |
| 28 | Pepsin immobilized by covalent fixation to hydroxyalkyl methacrylate gels: Preparation and characterization. Biochimica Et Biophysica Acta - Biomembranes, 1975, 403, 192-196. | 1.4 | 24 |
| 29 | Plant PIP2 -dependent phospholipase D activity is regulated by phosphorylation. FEBS Letters, 2003, 554, 50-54. | 1.3 | 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. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1976, 427, 586-593. | 1.7 | 23 |
| 31 | Changes in actin dynamics are involved in salicylic acid signaling pathway. Plant Science, 2014, 223, 36-44. | 1.7 | 22 |
| 32 | Determination of phospholipase D activity with a choline biosensor. Analytica Chimica Acta, 1993, 280, 43-48. | 2.6 | 20 |
| 33 | Flotillins, Erlins, and HIRs: From Animal Base Camp to Plant New Horizons. Critical Reviews in Plant Sciences, 2016, 35, 191-214. | 2.7 | 20 |
| 34 | Purification of microbial uricase. Biomedical Applications, 1989, 497, 268-275. | 1.7 | 19 |
| 35 | Role of hydrogen peroxide and antioxidant enzymes in the interaction between a hemibiotrophic fungal pathogen, Leptosphaeria maculans, and oilseed rape. Environmental and Experimental Botany, 2011, 72, 149-156. | 2.0 | 19 |
| 36 | â€œSalicylic Acid Mutant Collectionâ€•as a Tool to Explore the Role of Salicylic Acid in Regulation of Plant Growth under a Changing Environment. International Journal of Molecular Sciences, 2019, 20, 6365. | 1.8 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Immobilization of glycoenzymes by means of their glycosidic components. Biotechnology Letters, 1983, 5, 653-658. | 1.1 | 18 |
| 38 | Aluminum ions inhibit phospholipase D in a microtubuleâ€dependent manner. Cell Biology International, 2008, 32, 554-556. | 1.4 | 18 |
| 39 | Interconnection between actin cytoskeleton and plant defense signaling. Plant Signaling and Behavior, 2014, 9, e976486. | 1.2 | 16 |
| 40 | A microplate technique for phospholipase D activity determination. Analytica Chimica Acta, 1995, 315, 109-112. | 2.6 | 15 |
| 41 | Phospholipase DÎ´ assists to cortical microtubule recovery after salt stress. Protoplasma, 2018, 255, 1195-1204. | 1.0 | 15 |
| 42 | Identification of salicylic acid-independent responses in an Arabidopsis phosphatidylinositol 4-kinase beta double mutant. Annals of Botany, 2020, 125, 775-784. | 1.4 | 15 |
| 43 | Genomic Damage Induced in Nicotiana tabacum L. Plants by Colloidal Solution with Silver and Gold Nanoparticles. Plants, 2021, 10, 1260. | 1.6 | 15 |
| 44 | In vitro distribution and characterization of membrane-associated PLD and PI-PLC in Brassica napus. Journal of Experimental Botany, 2003, 54, 691-698. | 2.4 | 14 |
| 45 | Cell Wall Components of Leptosphaeria maculans Enhance Resistance of Brassica napus. Journal of Agricultural and Food Chemistry, 2013, 61, 5207-5214. | 2.4 | 14 |
| 46 | Purification and characterisation of rape seed phospholipase D. Plant Physiology and Biochemistry, 1999, 37, 531-537. | 2.8 | 14 |
| 47 | Purification and characterisation of rape seed phospholipase D. Plant Physiology and Biochemistry, 1999, 37, 531-537. | 2.8 | 13 |
| 48 | Chitinase isozymes induced by TYMV and Leptosphaeria maculans during compatible and incompatible interaction with Brassica napus. Biologia Plantarum, 2007, 51, 507-513. | 1.9 | 13 |
| 49 | Size-related oxygen consumption and ammonia excretion of Eurasian perch (Perca fluviatilis L.) reared in a recirculating system. Aquaculture Research, 2009, 41, 135-142. | 0.9 | 11 |
| 50 | Isolation of aminopeptidase from Aspergillus flavus. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1976, 420, 309-315. | 1.7 | 9 |
| 51 | Reactive carriers of immobilized compounds. Biochimica Et Biophysica Acta - Biomembranes, 1977, 481, 289-296. | 1.4 | 8 |
| 52 | Influence of microwave treatment on the quality of rapeseed oil. JAOCS, Journal of the American Oil Chemists' Society, 2002, 79, 1271-1272. | 0.8 | 8 |
| 53 | Enzymic determination of glucose in foodstuffs. Journal of the Science of Food and Agriculture, 1983, 34, 748-754. | 1.7 | 7 |
| 54 | Editorial: Lipid Signaling in Plant Development and Responses to Environmental Stresses. Frontiers in Plant Science, 2016, 7, 324. | 1.7 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Interplay between phosphoinositides and actin cytoskeleton in the regulation of immunity related responses in Arabidopsis thaliana seedlings. Environmental and Experimental Botany, 2019, 167, 103867. | 2.0 | 7 |
| 56 | Spectrophotometric flow-injection determination of urea in body fluids by using an immobilized urease reactor. Analytica Chimica Acta, 1989, 218, 151-155. | 2.6 | 6 |
| 57 | Sensitive techniques for phospholipase D determination in plants. TrAC - Trends in Analytical Chemistry, 1993, 12, 266-271. | 5.8 | 6 |
| 58 | Immobilized preparations for the biotransformation of daunomycinone. Biotechnology Letters, 1981, 3, 327-330. | 1.1 | 5 |
| 59 | Immobilization of cells via activated cell walls. Biotechnology Letters, 1986, 8, 721-724. | 1.1 | 5 |
| 60 | Separation and identification of candidate protein elicitors from the cultivation medium of Leptosphaeria maculans inducing resistance in Brassica napus. Biotechnology Progress, 2016, 32, 918-928. | 1.3 | 5 |
| 61 | Identification of phospholipase D genes in Brassica napus and their transcription after phytohormone treatment and pathogen infection. Biologia Plantarum, 2015, 59, 581-590. | 1.9 | 4 |
| 62 | Production of glucose isomerase by different strains ofStreptomyces. Biotechnology Letters, 1979, 1, 293-298. | 1.1 | 3 |
| 63 | Regulation of the microsomal proteome by salicylic acid andÂdeficiency of phosphatidylinositolâ€4â€kinases Î²1 and Î²2 inÂ Arabidopsis thaliana. Proteomics, 2021, 21, 2000223. | 1.3 | 3 |
| 64 | High-performance anion-exchange chromatography of rennet enzymes. Journal of Chromatography A, 1988, 438, 451-453. | 1.8 | 2 |
| 65 | Some methods for isolation and assays of enzymes occurring in cereals and legumes. Food Reviews International, 1992, 8, 559-572. | 4.3 | 2 |
| 66 | Purification of glycerophosphate oxidase isolated from mutant strain of aerococcus viridans. Biotechnology Letters, 1993, 7, 435-438. | 0.5 | 1 |
| 67 | An open tubular heterogeneous trypsin reactor. Collection of Czechoslovak Chemical Communications, 1976, 41, 164-171. | 1.0 | 1 |
| 68 | Study of cytosolic and membrane-bound phospholipase D in poppy seedlings, Papaver somniferum L.. Chemistry and Physics of Lipids, 2008, 154, S59. | 1.5 | 0 |
| 69 | Changes of Phospholipase D Activity during Rape Seed Development and Processing. , 1997, , 275-277. | | 0 |