

# Olena K Vatamaniuk

## List of Publications by Year in descending order

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38  
papers

2,354  
citations

304743

22  
h-index

330143

37  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Heavy Metal Ion Activation of Phytochelatin (PC) Synthase. <i>Journal of Biological Chemistry</i> , 2000, 275, 31451-31459.	3.4	346
2	OPT3 Is a Phloem-Specific Iron Transporter That Is Essential for Systemic Iron Signaling and Redistribution of Iron and Cadmium in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2249-2264.	6.6	215
3	A New Pathway for Heavy Metal Detoxification in Animals. <i>Journal of Biological Chemistry</i> , 2001, 276, 20817-20820.	3.4	206
4	Phytochelatin Synthase, a Dipeptidyltransferase That Undergoes Multisite Acylation with $\gamma$ -Glutamylcysteine during Catalysis. <i>Journal of Biological Chemistry</i> , 2004, 279, 22449-22460.	3.4	127
5	A $\gamma$ -Glutamyl Cyclotransferase Protects <i>Arabidopsis</i> Plants from Heavy Metal Toxicity by Recycling Glutamate to Maintain Glutathione Homeostasis. <i>Plant Cell</i> , 2013, 25, 4580-4595.	6.6	121
6	Weeds, Worms, and More. Papain's Long-Lost Cousin, Phytochelatin Synthase. <i>Plant Physiology</i> , 2004, 136, 2463-2474.	4.8	119
7	Tonoplast-localized Abc2 Transporter Mediates Phytochelatin Accumulation in Vacuoles and Confers Cadmium Tolerance. <i>Journal of Biological Chemistry</i> , 2010, 285, 40416-40426.	3.4	87
8	Iron-Nicotianamine Transporters Are Required for Proper Long Distance Iron Signaling. <i>Plant Physiology</i> , 2017, 175, 1254-1268.	4.8	87
9	COPT6 Is a Plasma Membrane Transporter That Functions in Copper Homeostasis in <i>Arabidopsis</i> and Is a Novel Target of SQUAMOSA Promoter-binding Protein-like 7. <i>Journal of Biological Chemistry</i> , 2012, 287, 33252-33267.	3.4	86
10	Establishing RNA Interference as a Reverse-Genetic Approach for Gene Functional Analysis in Protoplasts. <i>Plant Physiology</i> , 2009, 149, 642-652.	4.8	85
11	CeHMT-1, a Putative Phytochelatin Transporter, Is Required for Cadmium Tolerance in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 23684-23690.	3.4	82
12	The CTR/COPT-dependent copper uptake and SPL7-dependent copper deficiency responses are required for basal cadmium tolerance in <i>A. thaliana</i> . <i>Metallomics</i> , 2013, 5, 1262.	2.4	78
13	<i>Arabidopsis</i> Pollen Fertility Requires the Transcription Factors CITF1 and SPL7 That Regulate Copper Delivery to Anthers and Jasmonic Acid Synthesis. <i>Plant Cell</i> , 2017, 29, 3012-3029.	6.6	76
14	Mutagenic Definition of a Papain-Like Catalytic Triad, Sufficiency of the N-Terminal Domain for Single-Site Core Catalytic Enzyme Acylation, and C-Terminal Domain for Augmentative Metal Activation of a Eukaryotic Phytochelatin Synthase. <i>Plant Physiology</i> , 2006, 141, 858-869.	4.8	65
15	Detoxification of Multiple Heavy Metals by a Half-Molecule ABC Transporter, HMT-1, and Coelomocytes of <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2010, 5, e9564.	2.5	63
16	<i>Drosophila</i> ABC Transporter, DmHMT-1, Confers Tolerance to Cadmium. <i>Journal of Biological Chemistry</i> , 2009, 284, 354-362.	3.4	54
17	Local and systemic signaling of iron status and its interactions with homeostasis of other essential elements. <i>Frontiers in Plant Science</i> , 2015, 6, 716.	3.6	53
18	Worms take the "phyto" out of "phytochelatin". <i>Trends in Biotechnology</i> , 2002, 20, 61-64.	9.3	48

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19	The RGM protein DRAG-1 positively regulates a BMP-like signaling pathway in <i>Caenorhabditis elegans</i> . <i>Development (Cambridge)</i> , 2010, 137, 2375-2384.	2.5	39
20	Isolation of Protoplasts from Tissues of 14-day-old Seedlings of <i>Arabidopsis thaliana</i> . <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	38
21	The <i>Arabidopsis thaliana</i> Knockout Mutant for Phytochelatin Synthase1 ( <i>cad1-3</i> ) Is Defective in Callose Deposition, Bacterial Pathogen Defense and Auxin Content, But Shows an Increased Stem Lignification. <i>Frontiers in Plant Science</i> , 2018, 9, 19.	3.6	35
22	Gene Functional Analysis Using Protoplast Transient Assays. <i>Methods in Molecular Biology</i> , 2015, 1284, 433-452.	0.9	27
23	YSL3-mediated copper distribution is required for fertility, seed size and protein accumulation in <i>Brachypodium</i> . <i>Plant Physiology</i> , 2021, 186, 655-676.	4.8	25
24	<i>Brachypodium distachyon</i> as a model system for studies of copper transport in cereal crops. <i>Frontiers in Plant Science</i> , 2014, 5, 236.	3.6	24
25	Copper deficiency alters shoot architecture and reduces fertility of both gynoecium and androecium in <i>Arabidopsis thaliana</i> . <i>Plant Direct</i> , 2020, 4, e00288.	1.9	24
26	Ferroportin 3 is a dual-targeted mitochondrial/chloroplast iron exporter necessary for iron homeostasis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2021, 107, 215-236.	5.7	19
27	TpIRT1 from Polish wheat ( <i>Triticum polonicum</i> L.) enhances the accumulation of Fe, Mn, Co, and Cd in <i>Arabidopsis</i> . <i>Plant Science</i> , 2021, 312, 111058.	3.6	18
28	CsNIP2;1 is a Plasma Membrane Transporter from <i>Cucumis sativus</i> that Facilitates Urea Uptake When Expressed in <i>Saccharomyces cerevisiae</i> and <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 616-629.	3.1	15
29	ASCORBATE PEROXIDASE6 delays the onset of age-dependent leaf senescence. <i>Plant Physiology</i> , 2021, 185, 441-456.	4.8	15
30	The N-Terminal Extension Domain of the <i>C. elegans</i> Half-Molecule ABC Transporter, HMT-1, Is Required for Protein-Protein Interactions and Function. <i>PLoS ONE</i> , 2010, 5, e12938.	2.5	14
31	Bacterial Endophytes of Spring Wheat Grains and the Potential to Acquire Fe, Cu, and Zn under Their Low Soil Bioavailability. <i>Biology</i> , 2021, 10, 409.	2.8	11
32	N-Terminal Extension and C-Terminal Domains Are Required for ABCB6/HMT-1 Protein Interactions, Function in Cadmium Detoxification, and Localization to the Endosomal-Recycling System in <i>Caenorhabditis elegans</i> . <i>Frontiers in Physiology</i> , 2018, 9, 885.	2.8	9
33	Direct Transfer of Synthetic Double-Stranded RNA into Protoplasts of <i>Arabidopsis thaliana</i> . <i>Methods in Molecular Biology</i> , 2011, 744, 109-127.	0.9	8
34	Iron Availability within the Leaf Vasculature Determines the Magnitude of Iron Deficiency Responses in Source and Sink Tissues in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2022, 63, 829-841.	3.1	8
35	Genome-wide association study suggests an independent genetic basis of zinc and cadmium concentrations in fresh sweet corn kernels. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	7
36	Advances in understanding of copper function and transport in plants. , 2022, , 205-226.		6

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37	Excised leaf water status as a measure of drought resistance of Ukrainian spring wheat. <i>Studia Biologica</i> = Дізнання з біології, 2019, 13, 41-54.	0.4	3
38	Plant movement and LAC of it: How copper facilitates explosive seed dispersal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	3