

# Agnieszka Sirko

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4887671/publications.pdf>

Version: 2024-02-01

79  
papers

10,788  
citations

117625

34  
h-index

64796

79  
g-index

83  
all docs

83  
docs citations

83  
times ranked

22834  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Sulfate and thiosulfate transport in <i>Escherichia coli</i> K-12: nucleotide sequence and expression of the <i>cysTWAM</i> gene cluster. <i>Journal of Bacteriology</i> , 1990, 172, 3351-3357.	2.2	204
4	The role of integration host factor <i>In</i> gene expression in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1992, 6, 2557-2563.	2.5	191
5	Plant ureases: roles and regulation.. <i>Acta Biochimica Polonica</i> , 2000, 47, 1189-1195.	0.5	145
6	Identification and functional analysis of <i>Joka2</i> , a tobacco member of the family of selective autophagy cargo receptors. <i>Autophagy</i> , 2011, 7, 1145-1158.	9.1	119
7	Increased resistance to oxidative stress in transgenic tobacco plants overexpressing bacterial serine acetyltransferase. <i>Plant Journal</i> , 1999, 20, 237-243.	5.7	114
8	Recent advances in understanding plant response to sulfur-deficiency stress.. <i>Acta Biochimica Polonica</i> , 2008, 55, 457-471.	0.5	111
9	Sulfate and thiosulfate transport in <i>Escherichia coli</i> K-12: identification of a gene encoding a novel protein involved in thiosulfate binding. <i>Journal of Bacteriology</i> , 1990, 172, 3358-3366.	2.2	99
10	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. <i>Journal of Experimental Botany</i> , 2018, 69, 1335-1353.	4.8	97
11	Effects of simultaneous expression of heterologous genes involved in phytochelatin biosynthesis on thiol content and cadmium accumulation in tobacco plants. <i>Journal of Experimental Botany</i> , 2006, 57, 2173-2182.	4.8	93
12	Sulfate and thiosulfate transport in <i>Escherichia coli</i> K-12: evidence for a functional overlapping of sulfate- and thiosulfate-binding proteins. <i>Journal of Bacteriology</i> , 1995, 177, 4134-4136.	2.2	91
13	Overproduction of SAT and/or OASTL in transgenic plants: a survey of effects. <i>Journal of Experimental Botany</i> , 2004, 55, 1881-1888.	4.8	86
14	A Novel Form of Transcriptional Silencing by Sum1-1 Requires Hst1 and the Origin Recognition Complex. <i>Molecular and Cellular Biology</i> , 2001, 21, 3514-3522.	2.3	83
15	Electrochemical immunosensor for detection of antibodies against influenza A virus H5N1 in hen serum. <i>Biosensors and Bioelectronics</i> , 2014, 55, 301-306.	10.1	69
16	Electrochemical genosensor based on disc and screen printed gold electrodes for detection of specific DNA and RNA sequences derived from Avian Influenza Virus H5N1. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 290-297.	7.8	61
17	A highly sensitive electrochemical genosensor based on Co-porphyrin-labelled DNA. <i>Chemical Communications</i> , 2014, 50, 4196-4199.	4.1	54
18	Activity of the <i>AtMRP3</i> promoter in transgenic <i>Arabidopsis thaliana</i> and <i>Nicotiana tabacum</i> plants is increased by cadmium, nickel, arsenic, cobalt and lead but not by zinc and iron. <i>Journal of Biotechnology</i> , 2009, 139, 258-263.	3.8	52

#	ARTICLE	IF	CITATIONS
19	To deliver or to degrade – an interplay of the ubiquitin–proteasome system, autophagy and vesicular transport in plants. <i>FEBS Journal</i> , 2016, 283, 3534-3555.	4.7	48
20	Single Electrode Genosensor for Simultaneous Determination of Sequences Encoding Hemagglutinin and Neuraminidase of Avian Influenza Virus Type H5N1. <i>Analytical Chemistry</i> , 2013, 85, 10167-10173.	6.5	47
21	<i>Nicotiana tabacum</i> EIL2 directly regulates expression of at least one tobacco gene induced by sulphur starvation. <i>Journal of Experimental Botany</i> , 2010, 61, 889-900.	4.8	46
22	A Contribution to Identification of Novel Regulators of Plant Response to Sulfur Deficiency: Characteristics of a Tobacco Gene UP9C, Its Protein Product and the Effects of UP9C Silencing. <i>Molecular Plant</i> , 2010, 3, 347-360.	8.3	46
23	The family of LSU-like proteins. <i>Frontiers in Plant Science</i> , 2014, 5, 774.	3.6	46
24	An Immunosensor Based on Antibody Binding Fragments Attached to Gold Nanoparticles for the Detection of Peptides Derived from Avian Influenza Hemagglutinin H5. <i>Sensors</i> , 2014, 14, 15714-15728.	3.8	44
25	Plant ureases: roles and regulation. <i>Acta Biochimica Polonica</i> , 2000, 47, 1189-95.	0.5	44
26	DNA probe modified with 3-iron bis(dicarbollide) for electrochemical determination of DNA sequence of Avian Influenza Virus H5N1. <i>Biosensors and Bioelectronics</i> , 2014, 51, 170-176.	10.1	43
27	An electrochemical immunosensor based on a 4,4–thiobisbenzenethiol self-assembled monolayer for the detection of hemagglutinin from avian influenza virus H5N1. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 25-30.	7.8	40
28	Voltammetric Detection of a Specific DNA Sequence of Avian Influenza Virus H5N1 Using HS–DNA Probe Deposited onto Gold Electrode. <i>Electroanalysis</i> , 2012, 24, 439-446.	2.9	39
29	Biochemical analysis of transgenic tobacco lines producing bacterial serine acetyltransferase. <i>Plant Science</i> , 2002, 162, 589-597.	3.6	38
30	Links Between Ethylene and Sulfur Nutrition – A Regulatory Interplay or Just Metabolite Association?. <i>Frontiers in Plant Science</i> , 2015, 6, 1053.	3.6	38
31	Editorial: Frontiers of Sulfur Metabolism in Plant Growth, Development, and Stress Response. <i>Frontiers in Plant Science</i> , 2015, 6, 1220.	3.6	38
32	Recombinant Cytokines from Plants. <i>International Journal of Molecular Sciences</i> , 2011, 12, 3536-3552.	4.1	37
33	Using a suppression subtractive library-based approach to identify tobacco genes regulated in response to short-term sulphur deficit. <i>Journal of Experimental Botany</i> , 2005, 56, 1575-1590.	4.8	36
34	Integration host factor is required for anaerobic pyruvate induction of pfl operon expression in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1993, 175, 5769-5777.	2.2	35
35	Codon optimization of antigen coding sequences improves the immune potential of DNA vaccines against avian influenza virus H5N1 in mice and chickens. <i>Virology Journal</i> , 2016, 13, 143.	3.4	33
36	Electrochemical Label-free and Reagentless Genosensor Based on an Ion Barrier Switch-off System for DNA Sequence-Specific Detection of the Avian Influenza Virus. <i>Analytical Chemistry</i> , 2015, 87, 9702-9709.	6.5	32

#	ARTICLE	IF	CITATIONS
37	Understanding and exploiting autophagy signaling in plants. <i>Essays in Biochemistry</i> , 2017, 61, 675-685.	4.7	32
38	Tobacco LSU-like protein couples sulphur-deficiency response with ethylene signalling pathway. <i>Journal of Experimental Botany</i> , 2013, 64, 5173-5182.	4.8	31
39	To control and to be controlled: understanding the Arabidopsis SLIM1 function in sulfur deficiency through comprehensive investigation of the EIL protein family. <i>Frontiers in Plant Science</i> , 2014, 5, 575.	3.6	31
40	Significant role of PB1 and UBA domains in multimerization of Joka2, a selective autophagy cargo receptor from tobacco. <i>Frontiers in Plant Science</i> , 2014, 5, 13.	3.6	31
41	Transcriptional activation by FNR and CRP: reciprocity of binding site recognition. <i>Molecular Microbiology</i> , 1997, 23, 835-845.	2.5	30
42	EIN3 interferes with the sulfur deficiency signaling in Arabidopsis thaliana through direct interaction with the SLIM1 transcription factor. <i>Plant Science</i> , 2016, 253, 50-57.	3.6	29
43	A selective autophagy cargo receptor NBR1 modulates abscisic acid signalling in Arabidopsis thaliana. <i>Scientific Reports</i> , 2020, 10, 7778.	3.3	26
44	Control of ABA Signaling and Crosstalk with Other Hormones by the Selective Degradation of Pathway Components. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4638.	4.1	20
45	Electrochemical Detection of Avian Influenza Virus Genotype Using Amino-DNA Probe Modified Gold Electrodes. <i>Electroanalysis</i> , 2013, 25, 1871-1878.	2.9	18
46	A biosensor based on electroactive dipyrromethene-Cu(II) layer deposited onto gold electrodes for the detection of antibodies against avian influenza virus type H5N1 in hen sera. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7807-7814.	3.7	18
47	Overexpression of the Selective Autophagy Cargo Receptor NBR1 Modifies Plant Response to Sulfur Deficit. <i>Cells</i> , 2020, 9, 669.	4.1	18
48	Transcriptional pattern of Escherichia coli ihfB (himD) gene expression. <i>Gene</i> , 1996, 181, 85-88.	2.2	17
49	Recombinant Mouse Granulocyte-Macrophage Colony-Stimulating Factor Is Glycosylated in Transgenic Tobacco and Maintains its Biological Activity. <i>Journal of Interferon and Cytokine Research</i> , 2010, 30, 135-142.	1.2	17
50	Selective autophagy receptor Joka2 co-localizes with cytoskeleton in plant cells. <i>Plant Signaling and Behavior</i> , 2014, 9, e28523.	2.4	17
51	New redox-active layer create via epoxy-amine reaction - The base of genosensor for the detection of specific DNA and RNA sequences of avian influenza virus H5N1. <i>Biosensors and Bioelectronics</i> , 2015, 65, 427-434.	10.1	17
52	A prime/boost vaccination with HA DNA and Pichia -produced HA protein elicits a strong humoral response in chickens against H5N1. <i>Virus Research</i> , 2017, 232, 41-47.	2.2	17
53	Similar but Not Identical Binding Properties of LSU (Response to Low Sulfur) Proteins From Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2020, 11, 1246.	3.6	15
54	Î-defensins - Underestimated peptides in influenza combat. <i>Virus Research</i> , 2018, 247, 10-14.	2.2	14

#	ARTICLE	IF	CITATIONS
55	Highly immunogenic prime-boost DNA vaccination protects chickens against challenge with homologous and heterologous H5N1 virus. <i>Trials in Vaccinology</i> , 2014, 3, 40-46.	1.2	13
56	Effective usage of cationic derivatives of polyprenols as carriers of DNA vaccines against influenza virus. <i>Virology Journal</i> , 2017, 14, 168.	3.4	13
57	A methionine tRNA gene from lupine mitochondria. <i>Nucleic Acids Research</i> , 1986, 14, 7508-7508.	14.5	11
58	Mutational analysis of O-acetylserine (thiol) lyase conducted in yeast two-hybrid system. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 450-455.	2.3	11
59	Plant-produced Hepatitis B Core Protein Chimera Carrying Anthrax Protective Antigen Domain-4. <i>Hybridoma</i> , 2008, 27, 241-247.	0.4	11
60	The Role of Selective Protein Degradation in the Regulation of Iron and Sulfur Homeostasis in Plants. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2771.	4.1	11
61	Intronic T-DNA insertion in <i>Arabidopsis NBR1</i> conditionally affects wild-type transcript level. <i>Plant Signaling and Behavior</i> , 2014, 9, e975659.	2.4	9
62	Proteasomal Degradation of Proteins Is Important for the Proper Transcriptional Response to Sulfur Deficiency Conditions in Plants. <i>Plant and Cell Physiology</i> , 2020, 61, 1548-1564.	3.1	9
63	Genetic immunization of ducks for production of antibodies specific to <i>Helicobacter pylori</i> UreB in egg yolks. <i>Acta Biochimica Polonica</i> , 2005, 52, 261-266.	0.5	8
64	Transgenic tobacco plants as production platform for biologically active human interleukin 2 and its fusion with proteinase inhibitors. <i>Plant Biotechnology Journal</i> , 2012, 10, 806-814.	8.3	7
65	Selected phenotypes of <i>ihf</i> mutants of <i>Escherichia coli</i> . <i>Biochimie</i> , 1998, 80, 987-1001.	2.6	6
66	Response to a DNA vaccine against the H5N1 virus depending on the chicken line and number of doses. <i>Virology Journal</i> , 2020, 17, 66.	3.4	6
67	Isolation of <i>Nicotiana glauca</i> cDNAs encoding isoforms of serine acetyltransferase and O-acetylserine (thiol) lyase in a yeast two-hybrid system with <i>Escherichia coli</i> <i>cysE</i> and <i>cysK</i> genes as baits. <i>Acta Biochimica Polonica</i> , 2005, 52, 117-128.	0.5	6
68	Ultrasensitive electrochemical genosensor for direct detection of specific RNA sequences derived from avian influenza viruses present in biological samples. <i>Acta Biochimica Polonica</i> , 2019, 66, 299-304.	0.5	6
69	Integration host factor positively regulates <i>cysJH</i> transcription. <i>Molecular Genetics and Genomics</i> , 1998, 258, 174-177.	2.4	5
70	Polyadenylation and decay of 26S rRNA as part of <i>Nicotiana tabacum</i> response to cadmium. <i>Acta Biochimica Polonica</i> , 2007, 54, 747-755.	0.5	5
71	Transcriptional response to a prime/boost vaccination of chickens with three vaccine variants based on HA DNA and Pichia-produced HA protein. <i>Developmental and Comparative Immunology</i> , 2018, 88, 8-18.	2.3	4
72	Sequential DNA immunization of chickens with bivalent heterologous vaccines induce highly reactive and cross-specific antibodies against influenza hemagglutinin. <i>Poultry Science</i> , 2019, 98, 199-208.	3.4	4

#	ARTICLE	IF	CITATIONS
73	Immunogenicity of DNA Vaccine against H5N1 Containing Extended Kappa B Site: In Vivo Study in Mice and Chickens. <i>Frontiers in Immunology</i> , 2017, 8, 1012.	4.8	3
74	Characterization of mAb6-9-1 monoclonal antibody against hemagglutinin of avian influenza virus H5N1 and its engineered derivative, single-chain variable fragment antibody. <i>Acta Biochimica Polonica</i> , 2017, 64, 85-92.	0.5	3
75	Direct targeting of Arabidopsis cysteine synthase complexes with synthetic polypeptides to selectively deregulate cysteine synthesis. <i>Plant Science</i> , 2013, 207, 148-157.	3.6	2
76	TRANSAUTOPHAGY: European network for multidisciplinary research and translation of autophagy knowledge. <i>Autophagy</i> , 2016, 12, 614-617.	9.1	2
77	[Letter to the editor] Ethylene emitted by nylon membrane filters questions their usefulness to transfer plant seedlings between media. <i>BioTechniques</i> , 2011, 51, 329-30, 333.	1.8	1
78	Advances in Plant Autophagy. <i>Cells</i> , 2021, 10, 194.	4.1	1
79	Fluorescent Reporters for Ubiquitin-Dependent Proteolysis in Plants. <i>Methods in Molecular Biology</i> , 2016, 1450, 45-54.	0.9	0