Agnieszka Sirko

List of Publications by Year
in descending order

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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	Advances in Plant Autophagy. Cells, 2021, 10, 194.	4.1	1
2	Control of ABA Signaling and Crosstalk with Other Hormones by the Selective Degradation of Pathway Components. International Journal of Molecular Sciences, 2021, 22, 4638.	4.1	20
3	Similar but Not Identicalâ€"Binding Properties of LSU (Response to Low Sulfur) Proteins From Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 1246.	3.6	15
4	A selective autophagy cargo receptor NBR1 modulates abscisic acid signalling in Arabidopsis thaliana. Scientific Reports, 2020, 10, 7778.	3.3	26
5	Response to a DNA vaccine against the H5N1 virus depending on the chicken line and number of doses. Virology Journal, 2020, 17, 66.	3.4	6
6	Proteasomal Degradation of Proteins Is Important for the Proper Transcriptional Response to Sulfur Deficiency Conditions in Plants. Plant and Cell Physiology, 2020, 61, 1548-1564.	3.1	9
7	Overexpression of the Selective Autophagy Cargo Receptor NBR1 Modifies Plant Response to Sulfur Deficit. Cells, 2020, 9, 669.	4.1	18
8	The Role of Selective Protein Degradation in the Regulation of Iron and Sulfur Homeostasis in Plants. International Journal of Molecular Sciences, 2020, 21, 2771.	4.1	11
9	Sequential DNA immunization of chickens with bivalent heterologous vaccines induce highly reactive and cross-specific antibodies against influenza hemagglutinin. Poultry Science, 2019, 98, 199-208.	3.4	4
10	Ultrasensitive electrochemical genosensor for direct detection of specific RNA sequences derived from avian influenza viruses present in biological samples. Acta Biochimica Polonica, 2019, 66, 299-304.	0.5	6
11	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. Journal of Experimental Botany, 2018, 69, 1335-1353.	4.8	97
12	Î'-defensins â€“ Underestimated peptides in influenza combat. Virus Research, 2018, 247, 10-14.	2.2	14
13	Transcriptional response to a prime/boost vaccination of chickens with three vaccine variants based on HA DNA and Pichia-produced HA protein. Developmental and Comparative Immunology, 2018, 88, 8-18.	2.3	4
14	A prime/boost vaccination with HA DNA and Pichia -produced HA protein elicits a strong humoral response in chickens against H5N1. Virus Research, 2017, 232, 41-47.	2.2	17
15	Immunogenicity of DNA Vaccine against H5N1 Containing Extended Kappa B Site: In Vivo Study in Mice and Chickens. Frontiers in Immunology, 2017, 8, 1012.	4.8	3
16	Effective usage of cationic derivatives of polyprenols as carriers of DNA vaccines against influenza virus. Virology Journal, 2017, 14, 168.	3.4	13
17	Understanding and exploiting autophagy signaling in plants. Essays in Biochemistry, 2017, 61, 675-685.	4.7	32
18	Characterization of mAb6-9-1 monoclonal antibody against hemagglutinin of avian influenza virus H5N1 and its engineered derivative, single-chain variable fragment antibody. Acta Biochimica Polonica, 2017, 64, 85-92.	0.5	3

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19	TRANSAUTOPHAGY: European network for multidisciplinary research and translation of autophagy knowledge. Autophagy, 2016, 12, 614-617.	9.1	2
20	To deliver or to degrade â€“ an interplay of the ubiquitinâ€“proteasome system, autophagy and vesicular transport in plants. FEBS Journal, 2016, 283, 3534-3555.	4.7	48
21	EIN3 interferes with the sulfur deficiency signaling in Arabidopsis thaliana through direct interaction with the SLIM1 transcription factor. Plant Science, 2016, 253, 50-57.	3.6	29
22	Codon optimization of antigen coding sequences improves the immune potential of DNA vaccines against avian influenza virus H5N1 in mice and chickens. Virology Journal, 2016, 13, 143.	3.4	33
23	Fluorescent Reporters for Ubiquitin-Dependent Proteolysis in Plants. Methods in Molecular Biology, 2016, 1450, 45-54.	0.9	0
24	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
25	An electrochemical immunosensor based on a 4,4â€²-thiobisbenzenethiol self-assembled monolayer for the detection of hemagglutinin from avian influenza virus H5N1. Sensors and Actuators B: Chemical, 2016, 228, 25-30.	7.8	40
26	Electrochemical genosensor based on disc and screen printed gold electrodes for detection of specific DNA and RNA sequences derived from Avian Influenza Virus H5N1. Sensors and Actuators B: Chemical, 2016, 224, 290-297.	7.8	61
27	Links Between Ethylene and Sulfur Nutritionâ€"A Regulatory Interplay or Just Metabolite Association?. Frontiers in Plant Science, 2015, 6, 1053.	3.6	38
28	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. Analytical and Bioanalytical Chemistry, 2015, 407, 7807-7814.	3.7	18
29	Electrochemical Label-free and Reagentless Genosensor Based on an Ion Barrier Switch-off System for DNA Sequence-Specific Detection of the Avian Influenza Virus. Analytical Chemistry, 2015, 87, 9702-9709.	6.5	32
30	New redox-active layer create via epoxyâ€“amine reaction â€“ The base of genosensor for the detection of specific DNA and RNA sequences of avian influenza virus H5N1. Biosensors and Bioelectronics, 2015, 65, 427-434.	10.1	17
31	Editorial: Frontiers of Sulfur Metabolism in Plant Growth, Development, and Stress Response. Frontiers in Plant Science, 2015, 6, 1220.	3.6	38
32	Selective autophagy receptor Joka2 co-localizes with cytoskeleton in plant cells. Plant Signaling and Behavior, 2014, 9, e28523.	2.4	17
33	To control and to be controlled: understanding the Arabidopsis SLIM1 function in sulfur deficiency through comprehensive investigation of the EIL protein family. Frontiers in Plant Science, 2014, 5, 575.	3.6	31
34	An Immunosensor Based on Antibody Binding Fragments Attached to Gold Nanoparticles for the Detection of Peptides Derived from Avian Influenza Hemagglutinin H5. Sensors, 2014, 14, 15714-15728.	3.8	44
35	Significant role of PB1 and UBA domains in multimerization of Joka2, a selective autophagy cargo receptor from tobacco. Frontiers in Plant Science, 2014, 5, 13.	3.6	31
36	Intronic T-DNA insertion in ArabidopsisNBR1conditionally affects wild-type transcript level. Plant Signaling and Behavior, 2014, 9, e975659.	2.4	9

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37	DNA probe modified with 3-iron bis(dicarbollide) for electrochemical determination of DNA sequence of Avian Influenza Virus H5N1. Biosensors and Bioelectronics, 2014, 51, 170-176.	10.1	43
38	Electrochemical immunosensor for detection of antibodies against influenza A virus H5N1 in hen serum. Biosensors and Bioelectronics, 2014, 55, 301-306.	10.1	69
39	A highly sensitive electrochemical genosensor based on Co-porphyrin-labelled DNA. Chemical Communications, 2014, 50, 4196-4199.	4.1	54
40	Highly immunogenic primeâ€“boost DNA vaccination protects chickens against challenge with homologous and heterologous H5N1 virus. Trials in Vaccinology, 2014, 3, 40-46.	1.2	13
41	The family of LSU-like proteins. Frontiers in Plant Science, 2014, 5, 774.	3.6	46
42	Direct targeting of Arabidopsis cysteine synthase complexes with synthetic polypeptides to selectively deregulate cysteine synthesis. Plant Science, 2013, 207, 148-157.	3.6	2
43	Single Electrode Genosensor for Simultaneous Determination of Sequences Encoding Hemagglutinin and Neuraminidase of Avian Influenza Virus Type H5N1. Analytical Chemistry, 2013, 85, 10167-10173.	6.5	47
44	Tobacco LSU-like protein couples sulphur-deficiency response with ethylene signalling pathway. Journal of Experimental Botany, 2013, 64, 5173-5182.	4.8	31
45	Electrochemical Detection of Avian Influenza Virus Genotype Using Aminoâ€ssDNA Probe Modified Gold Electrodes. Electroanalysis, 2013, 25, 1871-1878.	2.9	18
46	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
47	Transgenic tobacco plants as production platform for biologically active human interleukin 2 and its fusion with proteinase inhibitors. Plant Biotechnology Journal, 2012, 10, 806-814.	8.3	7
48	Voltammetric Detection of a Specific DNA Sequence of Avian Influenza Virus H5N1 Using HSâ€ssDNA Probe Deposited onto Gold Electrode. Electroanalysis, 2012, 24, 439-446.	2.9	39
49	Recombinant Cytokines from Plants. International Journal of Molecular Sciences, 2011, 12, 3536-3552.	4.1	37
50	[Letter to the editor] Ethylene emitted by nylon membrane filters questions their usefulness to transfer plant seedlings between media. BioTechniques, 2011, 51, 329-30, 333.	1.8	1
51	Identification and functional analysis of Joka2, a tobacco member of the family of selective autophagy cargo receptors. Autophagy, 2011, 7, 1145-1158.	9.1	119
52	Nicotiana tabacum EIL2 directly regulates expression of at least one tobacco gene induced by sulphur starvation. Journal of Experimental Botany, 2010, 61, 889-900.	4.8	46
53	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. Molecular Plant, 2010, 3, 347-360.	8.3	46
54	Recombinant Mouse Granulocyteâ€“Macrophage Colony-Stimulating Factor Is Glycosylated in Transgenic Tobacco and Maintains its Biological Activity. Journal of Interferon and Cytokine Research, 2010, 30, 135-142.	1.2	17

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55	Activity of the AtMRP3 promoter in transgenic Arabidopsis thaliana and Nicotiana tabacum plants is increased by cadmium, nickel, arsenic, cobalt and lead but not by zinc and iron. Journal of Biotechnology, 2009, 139, 258-263.	3.8	52
56	Plant-produced Hepatitis B Core Protein Chimera Carrying Anthrax Protective Antigen Domain-4. Hybridoma, 2008, 27, 241-247.	0.4	11
57	Recent advances in understanding plant response to sulfur-deficiency stress.. Acta Biochimica Polonica, 2008, 55, 457-471.	0.5	111
58	Mutational analysis of O-acetylserine (thiol) lyase conducted in yeast two-hybrid system. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 450-455.	2.3	11
59	Polyadenylation and decay of 26S rRNA as part of Nicotiana tabacum response to cadmium.. Acta Biochimica Polonica, 2007, 54, 747-755.	0.5	5
60	Effects of simultaneous expression of heterologous genes involved in phytochelatin biosynthesis on thiol content and cadmium accumulation in tobacco plants. Journal of Experimental Botany, 2006, 57, 2173-2182.	4.8	93
61	Using a suppression subtractive library-based approach to identify tobacco genes regulated in response to short-term sulphur deficit. Journal of Experimental Botany, 2005, 56, 1575-1590.	4.8	36
62	Isolation of Nicotiana plumbaginifolia cDNAs encoding isoforms of serine acetyltransferase and O-acetylserine (thiol) lyase in a yeast two-hybrid system with Escherichia coli cysE and cysK genes as baits.. Acta Biochimica Polonica, 2005, 52, 117-128.	0.5	6
63	Genetic immunization of ducks for production of antibodies specific to Helicobacter pylori UreB in egg yolks.. Acta Biochimica Polonica, 2005, 52, 261-266.	0.5	8
64	Overproduction of SAT and/or OASTL in transgenic plants: a survey of effects. Journal of Experimental Botany, 2004, 55, 1881-1888.	4.8	86
65	Biochemical analysis of transgenic tobacco lines producing bacterial serine acetyltransferase. Plant Science, 2002, 162, 589-597.	3.6	38
66	A Novel Form of Transcriptional Silencing by Sum1-1 Requires Hst1 and the Origin Recognition Complex. Molecular and Cellular Biology, 2001, 21, 3514-3522.	2.3	83
67	Plant ureases: roles and regulation.. Acta Biochimica Polonica, 2000, 47, 1189-1195.	0.5	145
68	Plant ureases: roles and regulation. Acta Biochimica Polonica, 2000, 47, 1189-95.	0.5	44
69	Increased resistance to oxidative stress in transgenic tobacco plants overexpressing bacterial serine acetyltransferase. Plant Journal, 1999, 20, 237-243.	5.7	114
70	Integration host factor positively regulates cysJIH transcription. Molecular Genetics and Genomics, 1998, 258, 174-177.	2.4	5
71	Selected phenotypes of ihf mutants of Escherichia coli. Biochimie, 1998, 80, 987-1001.	2.6	6
72	Transcriptional activation by FNR and CRP: reciprocity of bindingâ€ site recognition. Molecular Microbiology, 1997, 23, 835-845.	2.5	30

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73	Transcriptional pattern of Escherichia coli ihfB (himD) gene expression. Gene, 1996, 181, 85-88.	2.2	17
74	Sulfate and thiosulfate transport in Escherichia coli K-12: evidence for a functional overlapping of sulfate- and thiosulfate-binding proteins. Journal of Bacteriology, 1995, 177, 4134-4136.	2.2	91
75	Integration host factor is required for anaerobic pyruvate induction of pfl operon expression in Escherichia coli. Journal of Bacteriology, 1993, 175, 5769-5777.	2.2	35
76	The role of integration host factor In gene expression in Escherichia coli. Molecular Microbiology, 1992, 6, 2557-2563.	2.5	191
77	Sulfate and thiosulfate transport in Escherichia coli K-12: identification of a gene encoding a novel protein involved in thiosulfate binding. Journal of Bacteriology, 1990, 172, 3358-3366.	2.2	99
78	Sulfate and thiosulfate transport in Escherichia coli K-12: nucleotide sequence and expression of the cysTWAM gene cluster. Journal of Bacteriology, 1990, 172, 3351-3357.	2.2	204
79	A methionine tRNA gene from lupine mitochondria. Nucleic Acids Research, 1986, 14, 7508-7508.	14.5	11