Agnieszka Sirko

List of Publications by Year
in descending order

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79 papers	10,788 citations	117453 34 h-index	64668 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). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
3	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.	1.0	204
4	The role of integration host factor In gene expression in Escherichia coli. Molecular Microbiology, 1992, 6, 2557-2563.	1.2	191
5	Plant ureases: roles and regulation.. Acta Biochimica Polonica, 2000, 47, 1189-1195.	0.3	145
6	Identification and functional analysis of Joka2, a tobacco member of the family of selective autophagy cargo receptors. Autophagy, 2011, 7, 1145-1158.	4.3	119
7	Increased resistance to oxidative stress in transgenic tobacco plants overexpressing bacterial serine acetyltransferase. Plant Journal, 1999, 20, 237-243.	2.8	114
8	Recent advances in understanding plant response to sulfur-deficiency stress.. Acta Biochimica Polonica, 2008, 55, 457-471.	0.3	111
9	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.	1.0	99
10	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. Journal of Experimental Botany, 2018, 69, 1335-1353.	2.4	97
11	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.	2.4	93
12	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.	1.0	91
13	Overproduction of SAT and/or OASTL in transgenic plants: a survey of effects. Journal of Experimental Botany, 2004, 55, 1881-1888.	2.4	86
14	A Novel Form of Transcriptional Silencing by Sum1-1 Requires Hst1 and the Origin Recognition Complex. Molecular and Cellular Biology, 2001, 21, 3514-3522.	1.1	83
15	Electrochemical immunosensor for detection of antibodies against influenza A virus H5N1 in hen serum. Biosensors and Bioelectronics, 2014, 55, 301-306.	5.3	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. Sensors and Actuators B: Chemical, 2016, 224, 290-297.	4.0	61
17	A highly sensitive electrochemical genosensor based on Co-porphyrin-labelled DNA. Chemical Communications, 2014, 50, 4196-4199.	2.2	54
18	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.	1.9	52

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19	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.	2.2	48
20	Single Electrode Genosensor for Simultaneous Determination of Sequences Encoding Hemagglutinin and Neuraminidase of Avian Influenza Virus Type H5N1. Analytical Chemistry, 2013, 85, 10167-10173.	3.2	47
21	Nicotiana tabacum EIL2 directly regulates expression of at least one tobacco gene induced by sulphur starvation. Journal of Experimental Botany, 2010, 61, 889-900.	2.4	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. Molecular Plant, 2010, 3, 347-360.	3.9	46
23	The family of LSU-like proteins. Frontiers in Plant Science, 2014, 5, 774.	1.7	46
24	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.	2.1	44
25	Plant ureases: roles and regulation. Acta Biochimica Polonica, 2000, 47, 1189-95.	0.3	44
26	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.	5.3	43
27	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.	4.0	40
28	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.	1.5	39
29	Biochemical analysis of transgenic tobacco lines producing bacterial serine acetyltransferase. Plant Science, 2002, 162, 589-597.	1.7	38
30	Links Between Ethylene and Sulfur Nutritionâ€”A Regulatory Interplay or Just Metabolite Association?. Frontiers in Plant Science, 2015, 6, 1053.	1.7	38
31	Editorial: Frontiers of Sulfur Metabolism in Plant Growth, Development, and Stress Response. Frontiers in Plant Science, 2015, 6, 1220.	1.7	38
32	Recombinant Cytokines from Plants. International Journal of Molecular Sciences, 2011, 12, 3536-3552.	1.8	37
33	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.	2.4	36
34	Integration host factor is required for anaerobic pyruvate induction of pfl operon expression in Escherichia coli. Journal of Bacteriology, 1993, 175, 5769-5777.	1.0	35
35	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.	1.4	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. Analytical Chemistry, 2015, 87, 9702-9709.	3.2	32

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37	Understanding and exploiting autophagy signaling in plants. Essays in Biochemistry, 2017, 61, 675-685.	2.1	32
38	Tobacco LSU-like protein couples sulphur-deficiency response with ethylene signalling pathway. Journal of Experimental Botany, 2013, 64, 5173-5182.	2.4	31
39	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.	1.7	31
40	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.	1.7	31
41	Transcriptional activation by FNR and CRP: reciprocity of bindingâ€site recognition. Molecular Microbiology, 1997, 23, 835-845.	1.2	30
42	EIN3 interferes with the sulfur deficiency signaling in Arabidopsis thaliana through direct interaction with the SLIM1 transcription factor. Plant Science, 2016, 253, 50-57.	1.7	29
43	A selective autophagy cargo receptor NBR1 modulates abscisic acid signalling in Arabidopsis thaliana. Scientific Reports, 2020, 10, 7778.	1.6	26
44	Control of ABA Signaling and Crosstalk with Other Hormones by the Selective Degradation of Pathway Components. International Journal of Molecular Sciences, 2021, 22, 4638.	1.8	20
45	Electrochemical Detection of Avian Influenza Virus Genotype Using Aminoâ€ssDNA Probe Modified Gold Electrodes. Electroanalysis, 2013, 25, 1871-1878.	1.5	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. Analytical and Bioanalytical Chemistry, 2015, 407, 7807-7814.	1.9	18
47	Overexpression of the Selective Autophagy Cargo Receptor NBR1 Modifies Plant Response to Sulfur Deficit. Cells, 2020, 9, 669.	1.8	18
48	Transcriptional pattern of Escherichia coli ihfB (himD) gene expression. Gene, 1996, 181, 85-88.	1.0	17
49	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.	0.5	17
50	Selective autophagy receptor Joka2 co-localizes with cytoskeleton in plant cells. Plant Signaling and Behavior, 2014, 9, e28523.	1.2	17
51	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.	5.3	17
52	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.	1.1	17
53	Similar but Not Identicalâ€”Binding Properties of LSU (Response to Low Sulfur) Proteins From Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 1246.	1.7	15
54	Î’-defensins â€“ Underestimated peptides in influenza combat. Virus Research, 2018, 247, 10-14.	1.1	14

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55	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
56	Effective usage of cationic derivatives of polyprenols as carriers of DNA vaccines against influenza virus. Virology Journal, 2017, 14, 168.	1.4	13
57	A methionine tRNA gene from lupine mitochondria. Nucleic Acids Research, 1986, 14, 7508-7508.	6.5	11
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.	1.1	11
59	Plant-produced Hepatitis B Core Protein Chimera Carrying Anthrax Protective Antigen Domain-4. Hybridoma, 2008, 27, 241-247.	0.5	11
60	The Role of Selective Protein Degradation in the Regulation of Iron and Sulfur Homeostasis in Plants. International Journal of Molecular Sciences, 2020, 21, 2771.	1.8	11
61	Intronic T-DNA insertion in ArabidopsisNBR1conditionally affects wild-type transcript level. Plant Signaling and Behavior, 2014, 9, e975659.	1.2	9
62	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.	1.5	9
63	Genetic immunization of ducks for production of antibodies specific to Helicobacter pylori UreB in egg yolks.. Acta Biochimica Polonica, 2005, 52, 261-266.	0.3	8
64	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.	4.1	7
65	Selected phenotypes of ihf mutants of Escherichia coli. Biochimie, 1998, 80, 987-1001.	1.3	6
66	Response to a DNA vaccine against the H5N1 virus depending on the chicken line and number of doses. Virology Journal, 2020, 17, 66.	1.4	6
67	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.	0.3	6
68	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.	0.3	6
69	Integration host factor positively regulates cysJIH transcription. Molecular Genetics and Genomics, 1998, 258, 174-177.	2.4	5
70	Polyadenylation and decay of 26S rRNA as part of Nicotiana tabacum response to cadmium.. Acta Biochimica Polonica, 2007, 54, 747-755.	0.3	5
71	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.	1.0	4
72	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.	1.5	4

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73	Immunogenicity of DNA Vaccine against H5N1 Containing Extended Kappa B Site: In Vivo Study in Mice and Chickens. Frontiers in Immunology, 2017, 8, 1012.	2.2	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. Acta Biochimica Polonica, 2017, 64, 85-92.	0.3	3
75	Direct targeting of Arabidopsis cysteine synthase complexes with synthetic polypeptides to selectively deregulate cysteine synthesis. Plant Science, 2013, 207, 148-157.	1.7	2
76	TRANSAUTOPHAGY: European network for multidisciplinary research and translation of autophagy knowledge. Autophagy, 2016, 12, 614-617.	4.3	2
77	[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.	0.8	1
78	Advances in Plant Autophagy. Cells, 2021, 10, 194.	1.8	1
79	Fluorescent Reporters for Ubiquitin-Dependent Proteolysis in Plants. Methods in Molecular Biology, 2016, 1450, 45-54.	0.4	0